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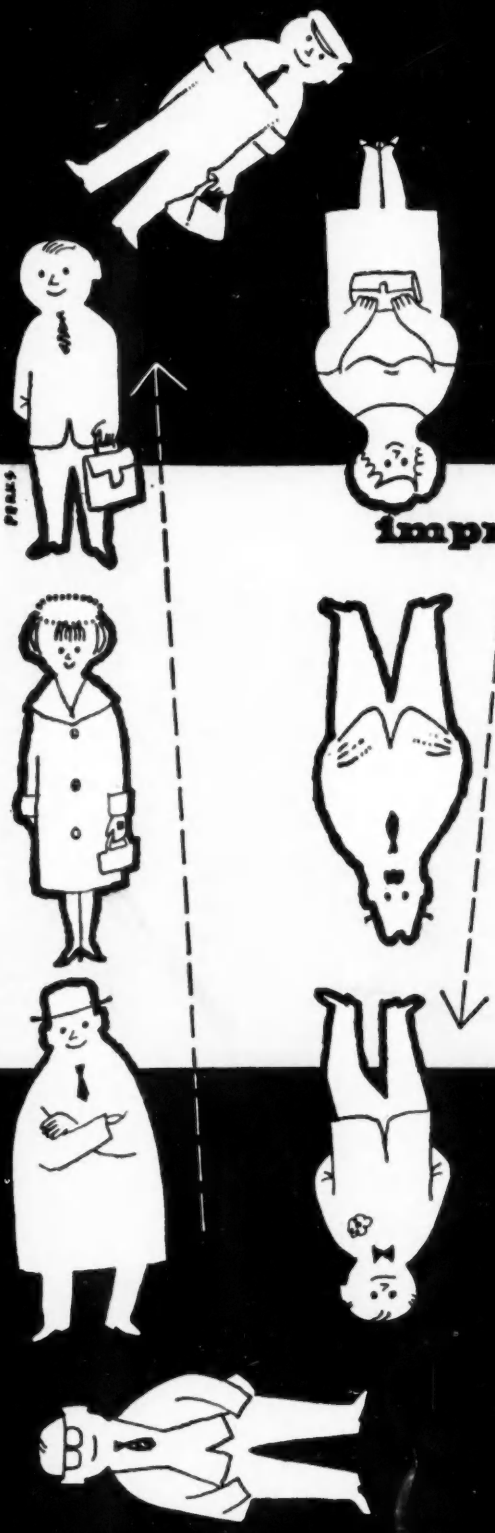

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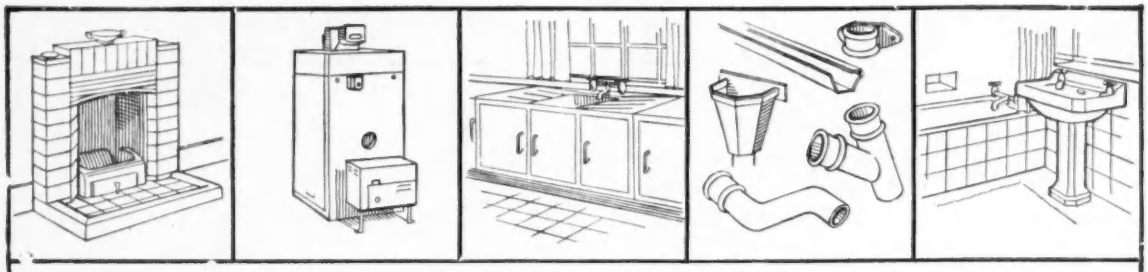

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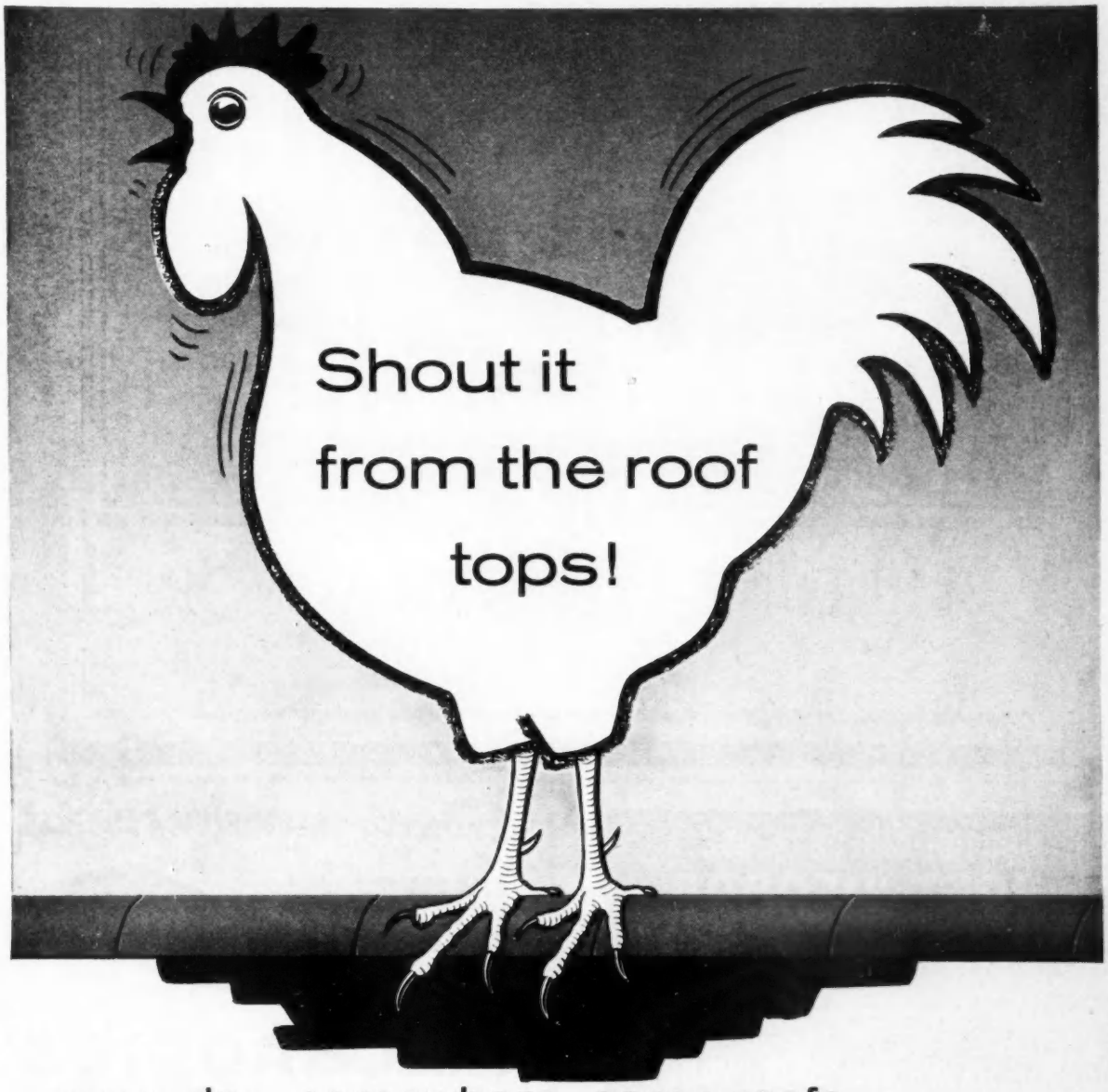

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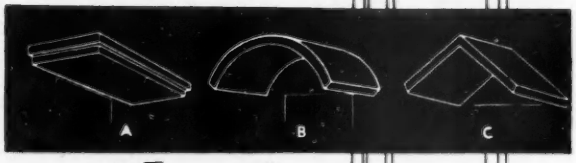

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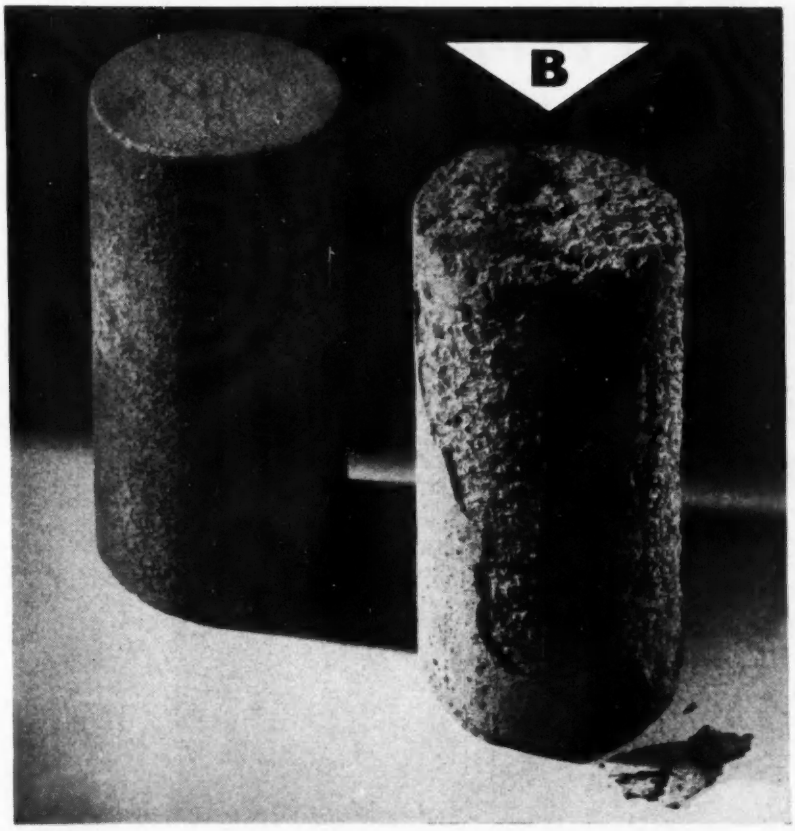
The illustration below explains why it is often found necessary to repoint joints in brickwork after only a few seasons of exposure



The cylinder marked 'A' consisted of mortar gauged 1 part cement to 6 parts sand by volume plus **FEBMIX ADMIX** Mortar Plasticiser. The cylinder marked 'B' was composed of 1 part cement to 1 part hydrated lime to 6 parts sand by volume. Both the cylinders of mortar were allowed to cure for one month and were then subjected to 30 cycles of freezing and thawing at which point the mortar cylinder containing **FEBMIX ADMIX** was unaffected. But, as can be seen from the above photograph the cylinder of cement lime sand mortar had badly disintegrated.

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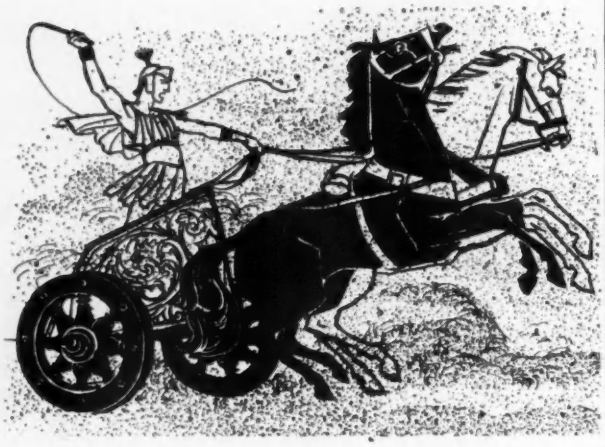

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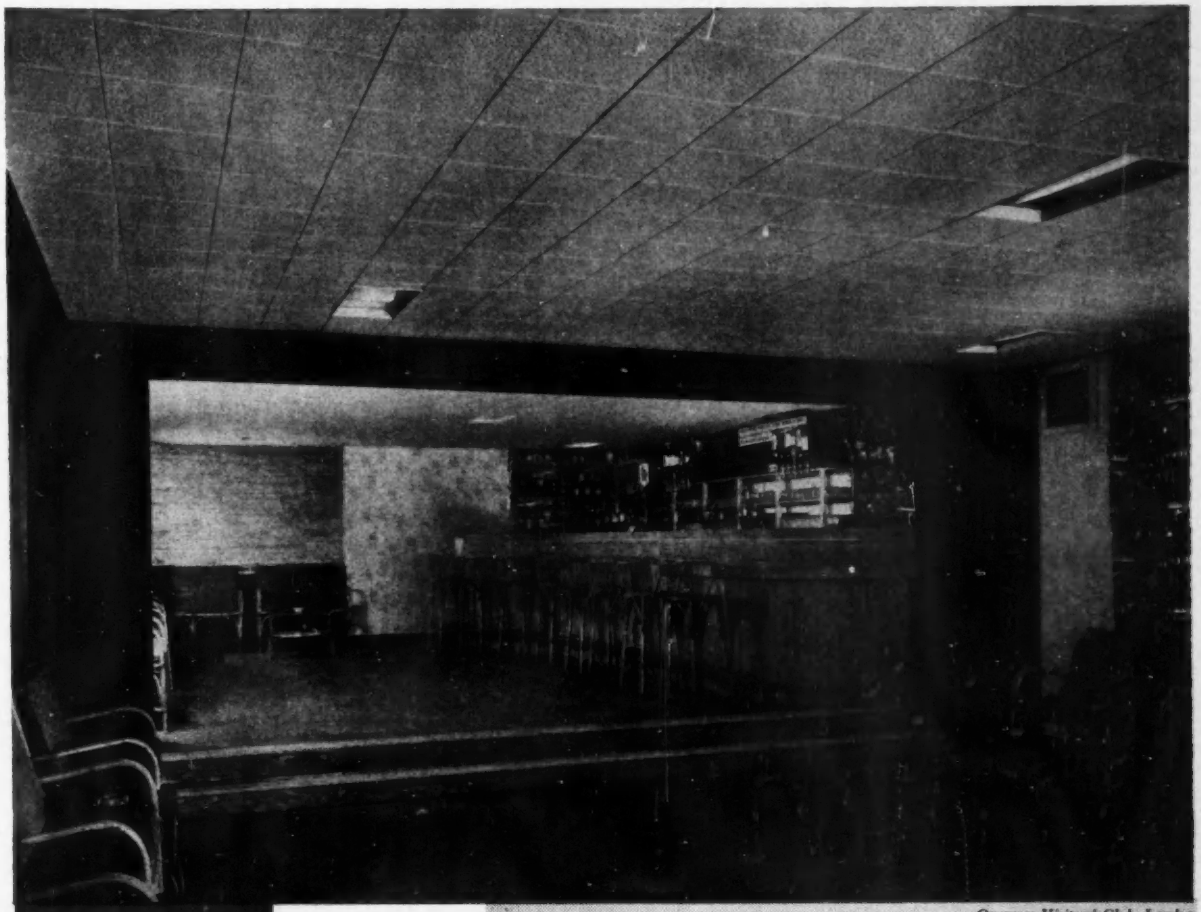

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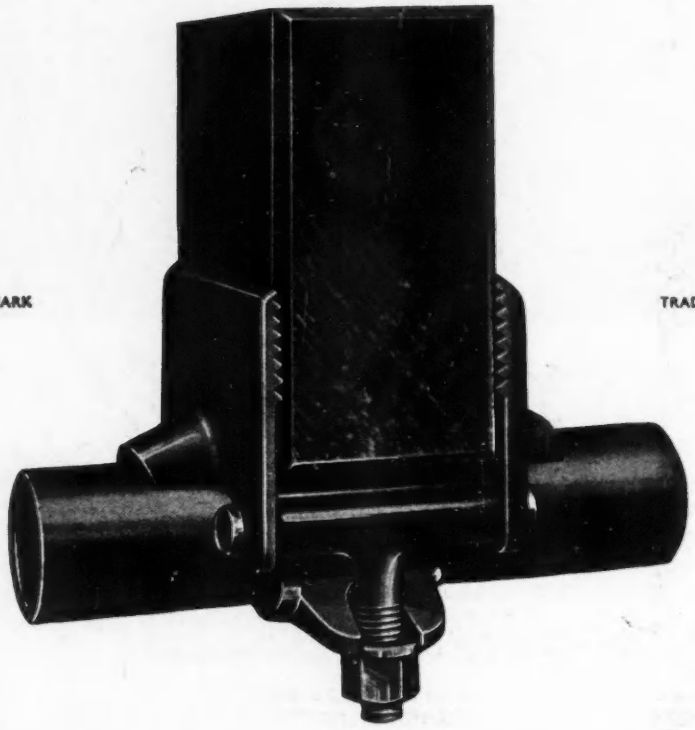

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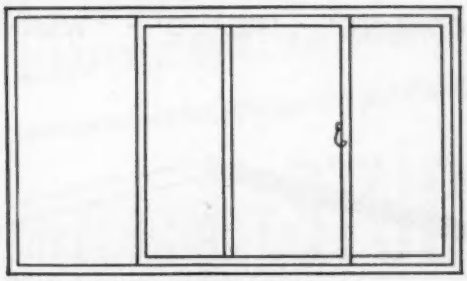
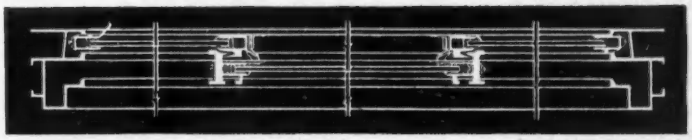
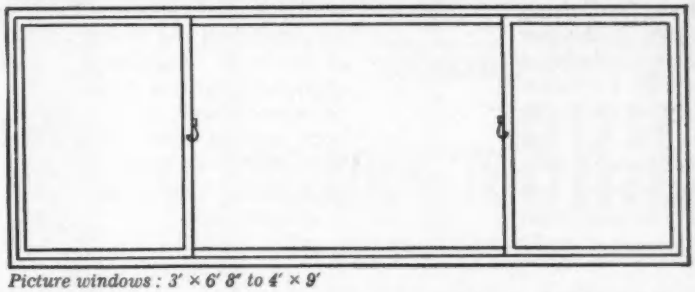
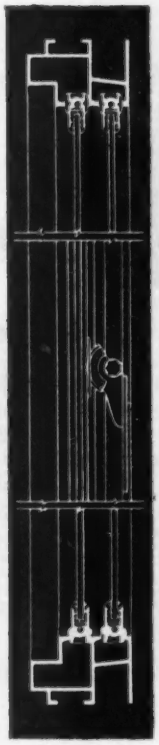


Horizontal sliding : 3′ × 3′ to 4′ × 6′





Picture windows : 3′ × 6′ 8″ to 4′ × 9′



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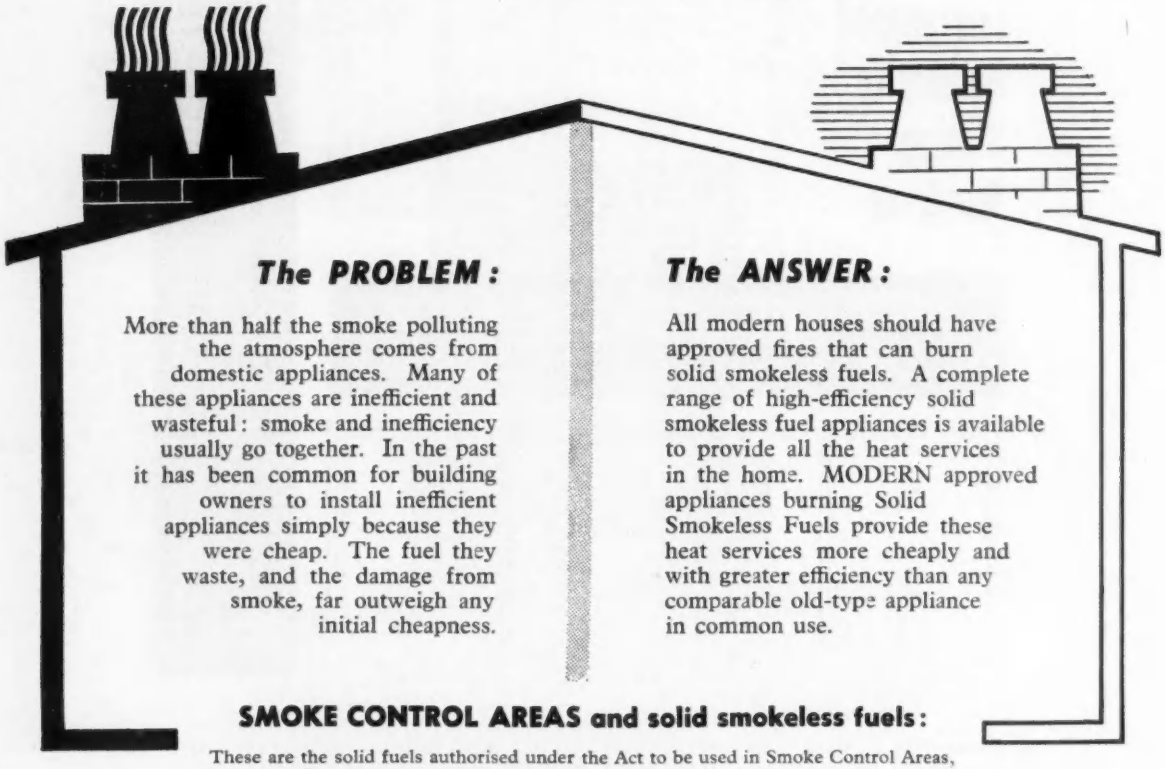

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3.39

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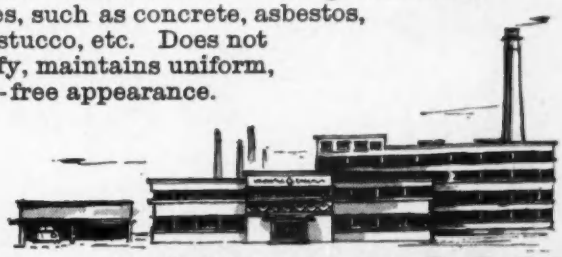

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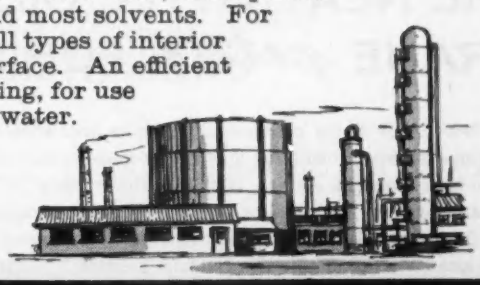

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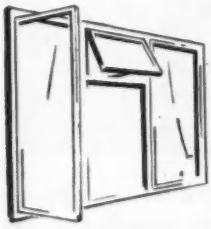

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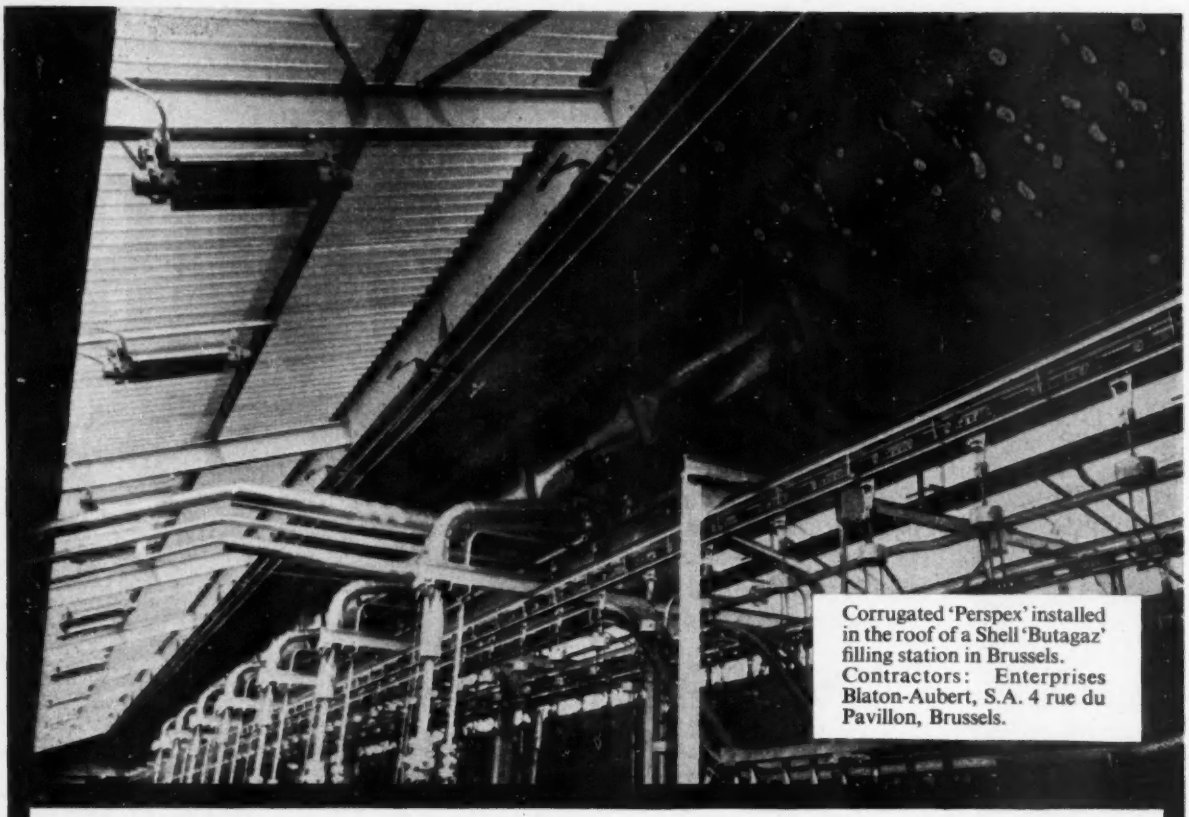

Corrugated 'Perspex' installed in the roof of a Shell 'Butagaz' filling station in Brussels. Contractors: Enterprises Blaton-Aubert, S.A. 4 rue du Pavillon, Brussels.

Corrugated 'Perspex' brings daylight into this Shell 'Butagaz' filling station, Brussels

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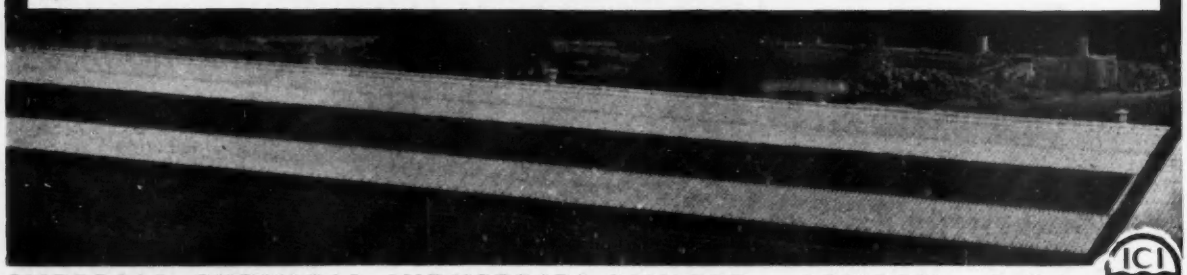

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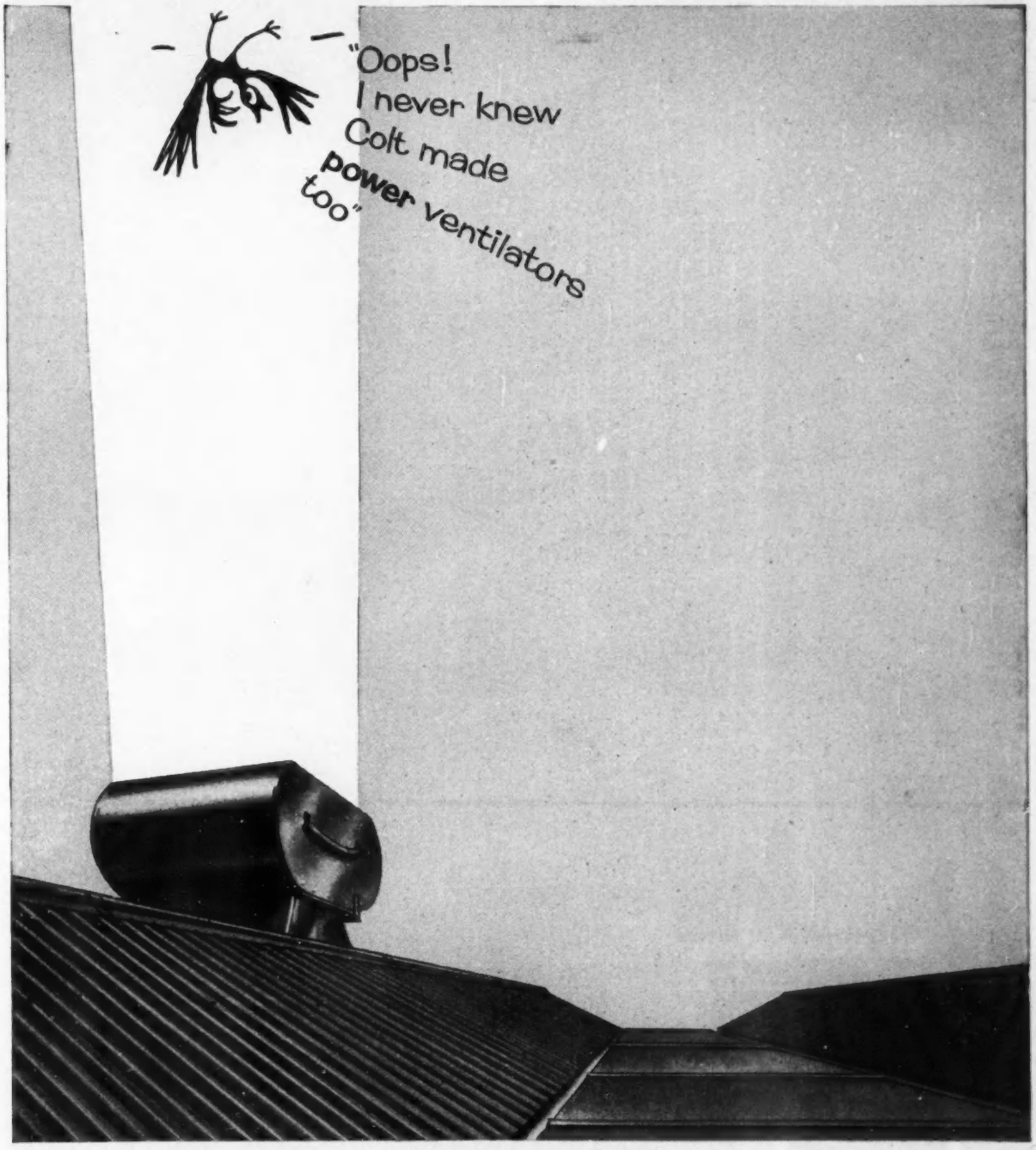

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Curtain Walling is quick
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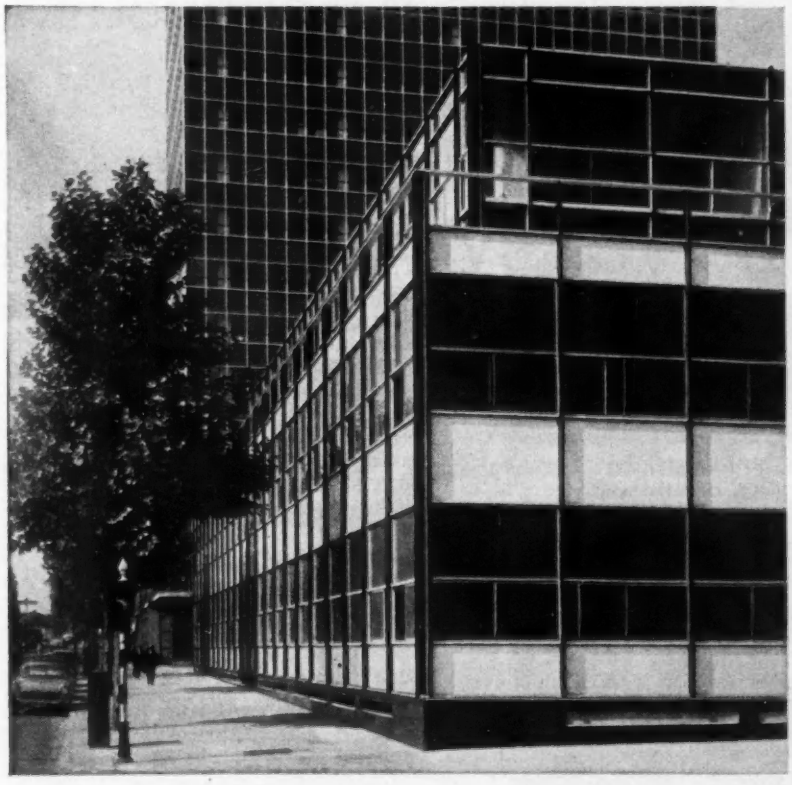
beats the lot

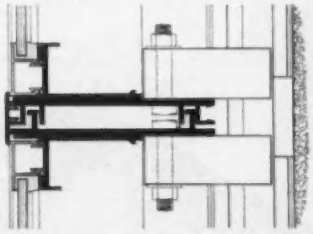
FACTS

A new type of Wallspan makes its debut on the tower of Castrol House—a prefabricated Wallspan designed in collaboration with the architect that goes up more quickly than any curtain walling system yet devised. Williams & Williams developed it specially to fit in with a tight building schedule—18 months from start to finish.

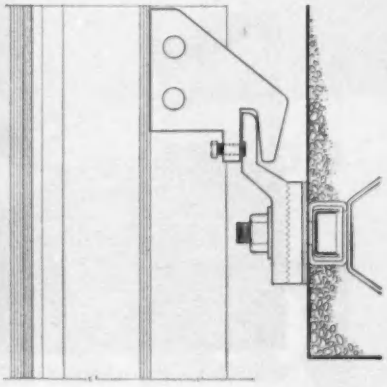
The main feature of prefabricated Wallspan is that its mullion is split vertically in half. This allows it to be supplied in complete prefabricated panels 2 floors high, with the double-hung windows already in place. Each panel is simply hung on to its fixing spigots, plumbed, then interlocked with its neighbour. The walls of the tower block were erected at the rate of 2 floors a week: the interior trades were able to move in and get on with their job fully protected while the floors above were still being clad.

The vertical section shows how the prefabricated Wallspan is literally *hung* on to the frame. It is curtain walling in the truest sense, and although designed in the first place specifically for Castrol House, the system is now generally available—a classic example of co-operation between the architect and the curtain walling specialists.





Horizontal section at infill level. Each half mullion forms the edge of a prefabricated panel. When the two panels are brought together, the joint is sealed with Thiokol mastic and an aluminium capping is then clipped on to seal the joint finally.



Vertical section showing fixing detail. As the floor slab is cast, bolts are built in ready to receive the fixing spigots. These are adjustable vertically and horizontally to allow for slight inaccuracies. Hooks on the Wallspan panels engage over the spigots and are kept firmly in place by compression bolts.

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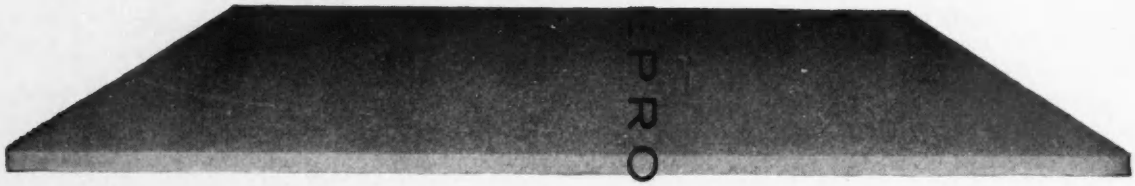

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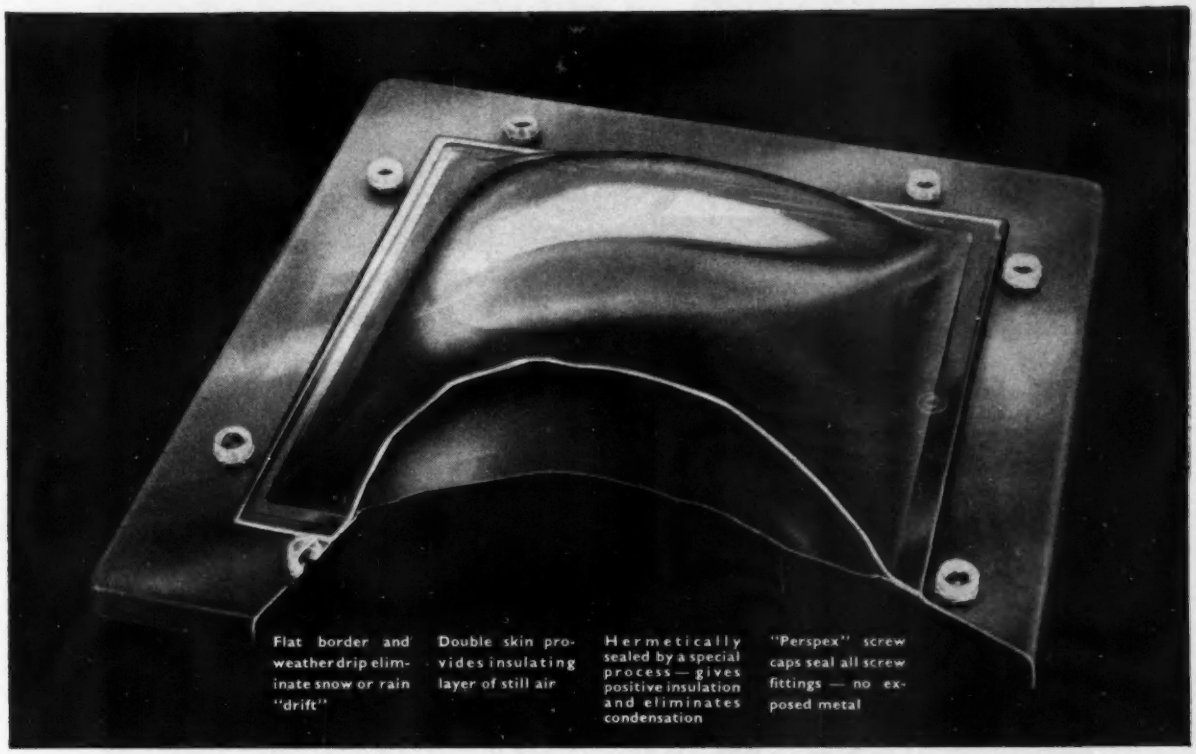

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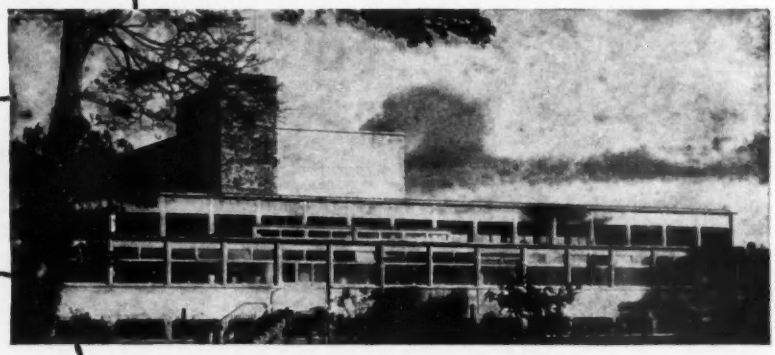

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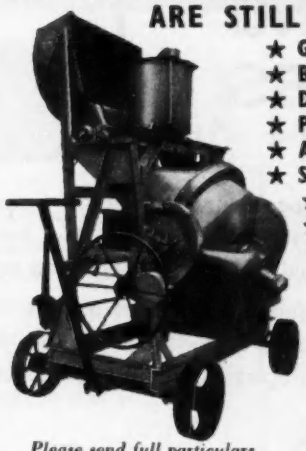

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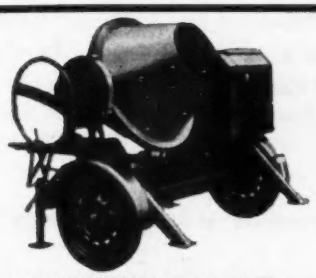

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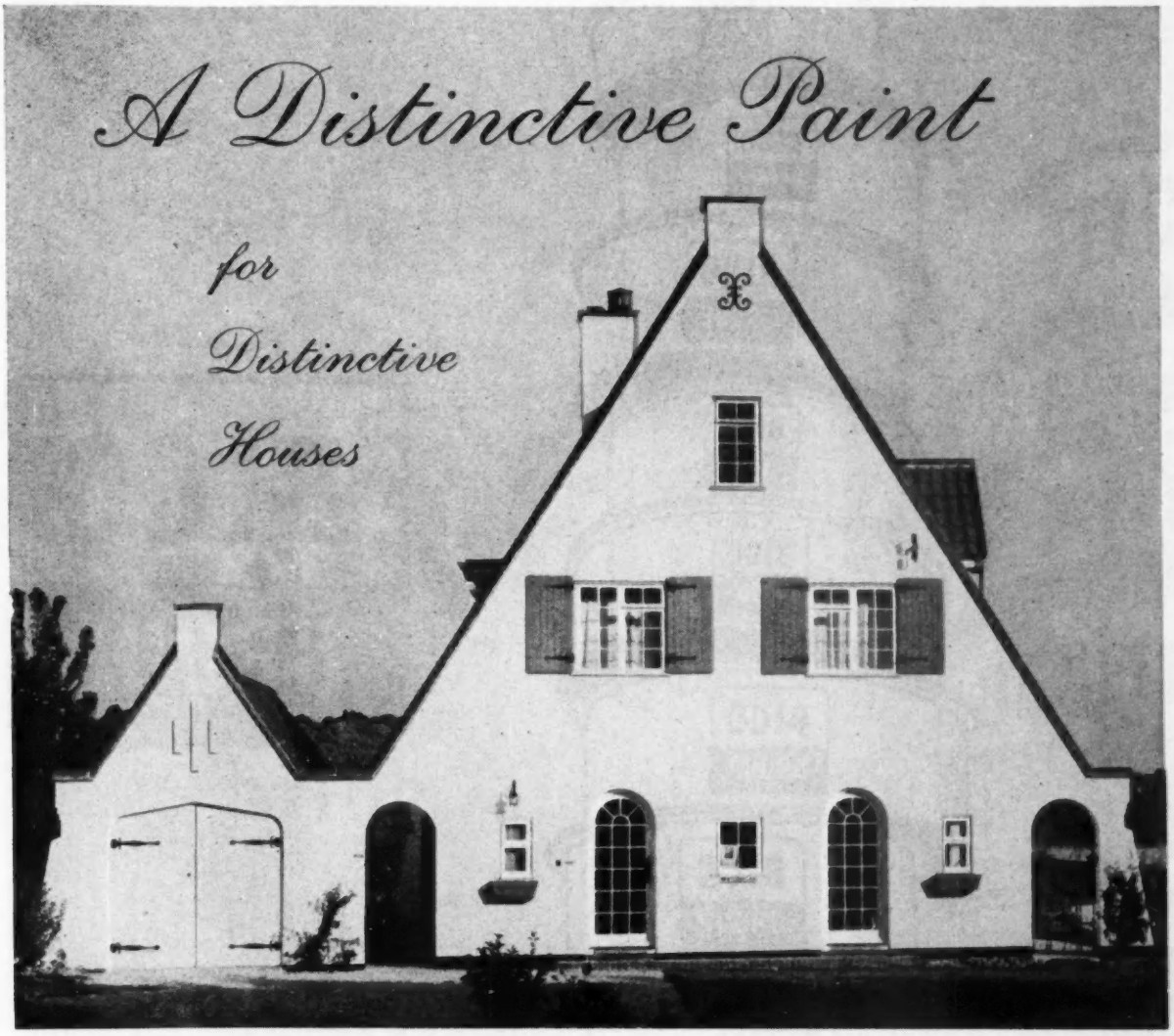

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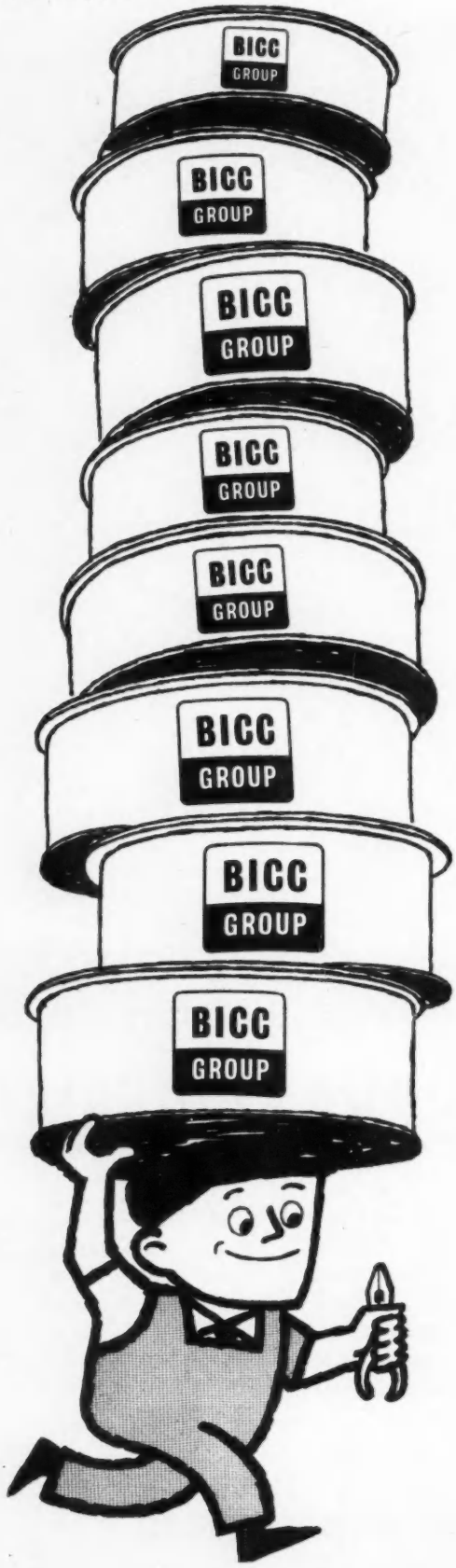

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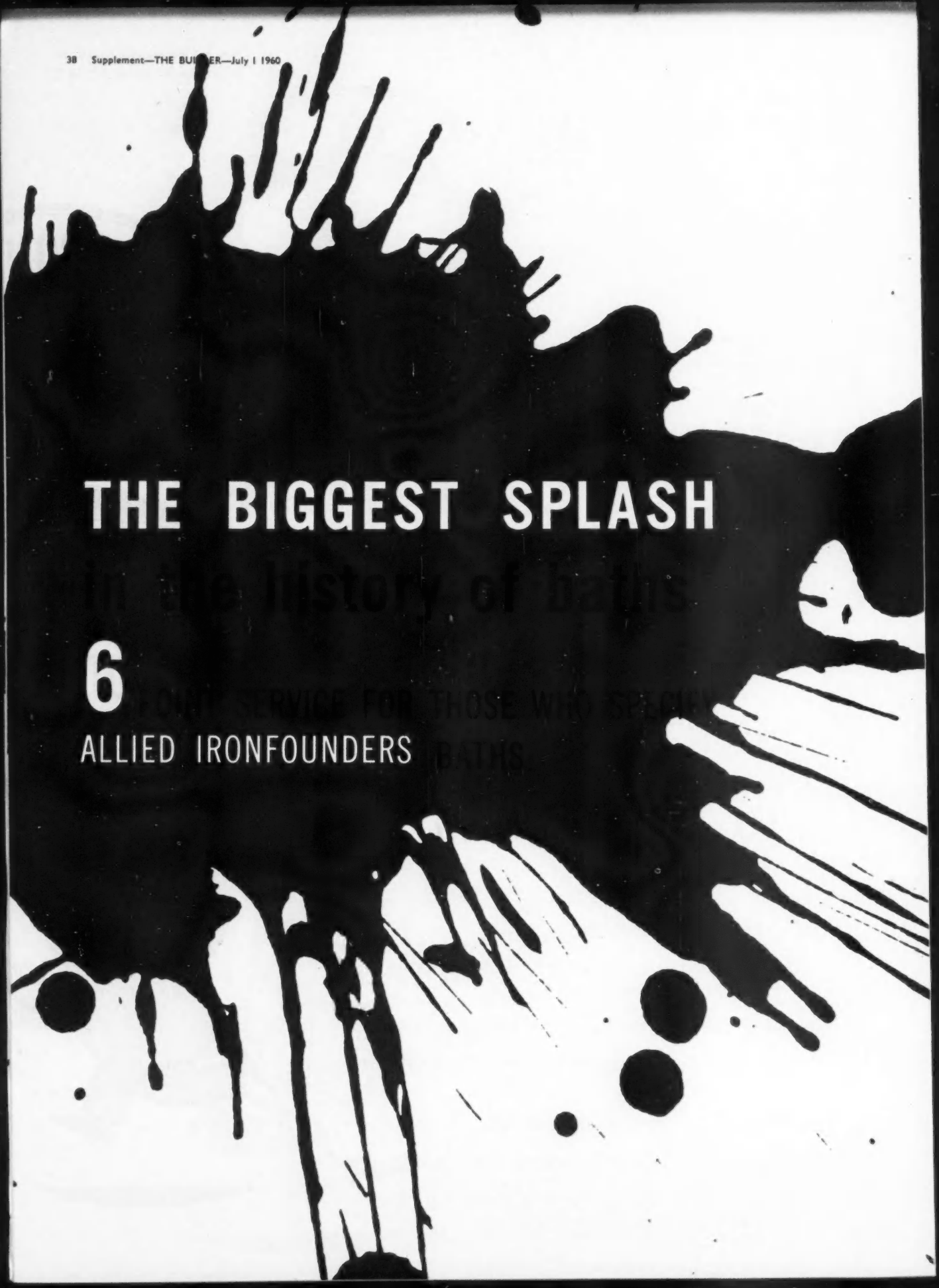
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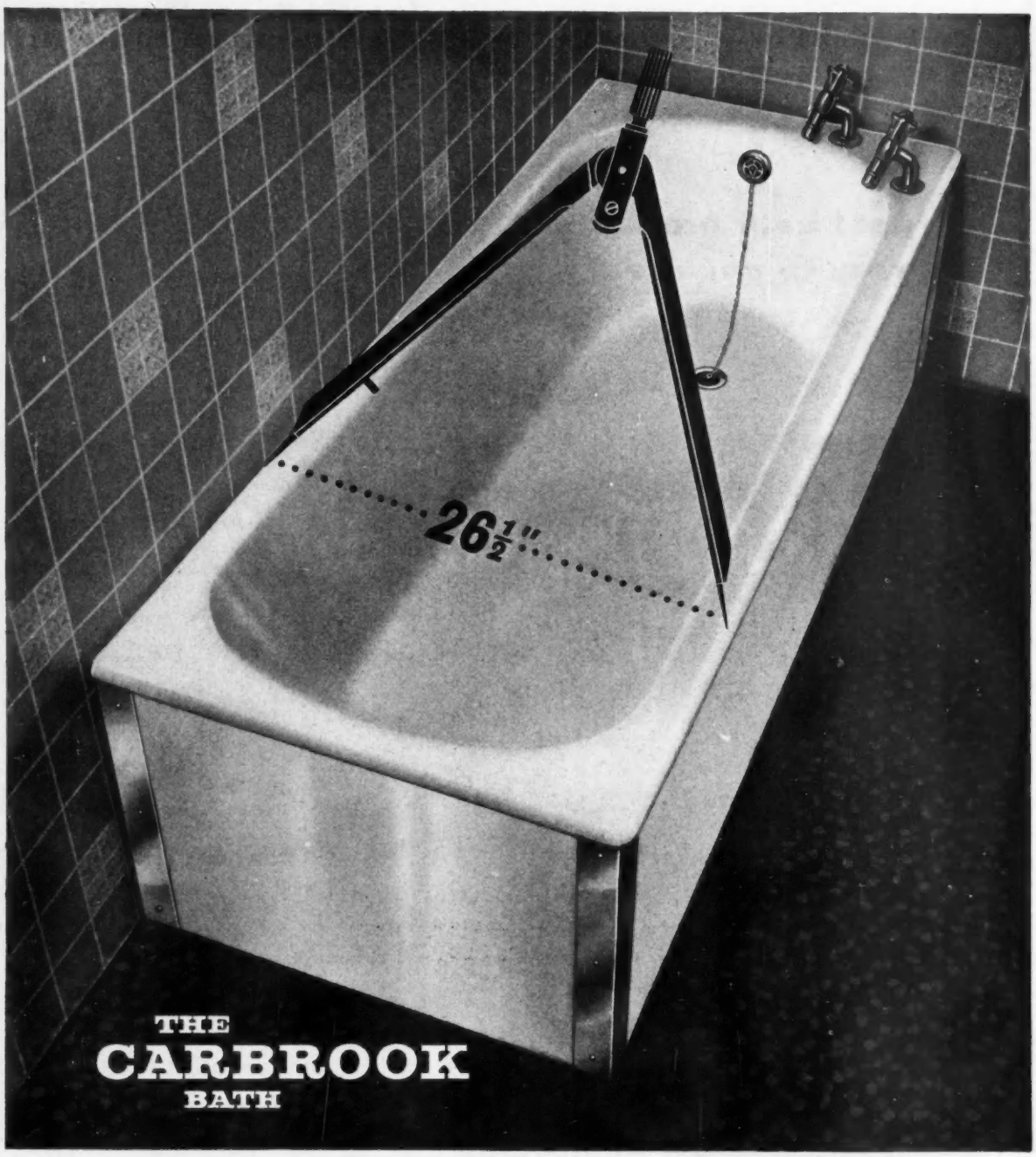

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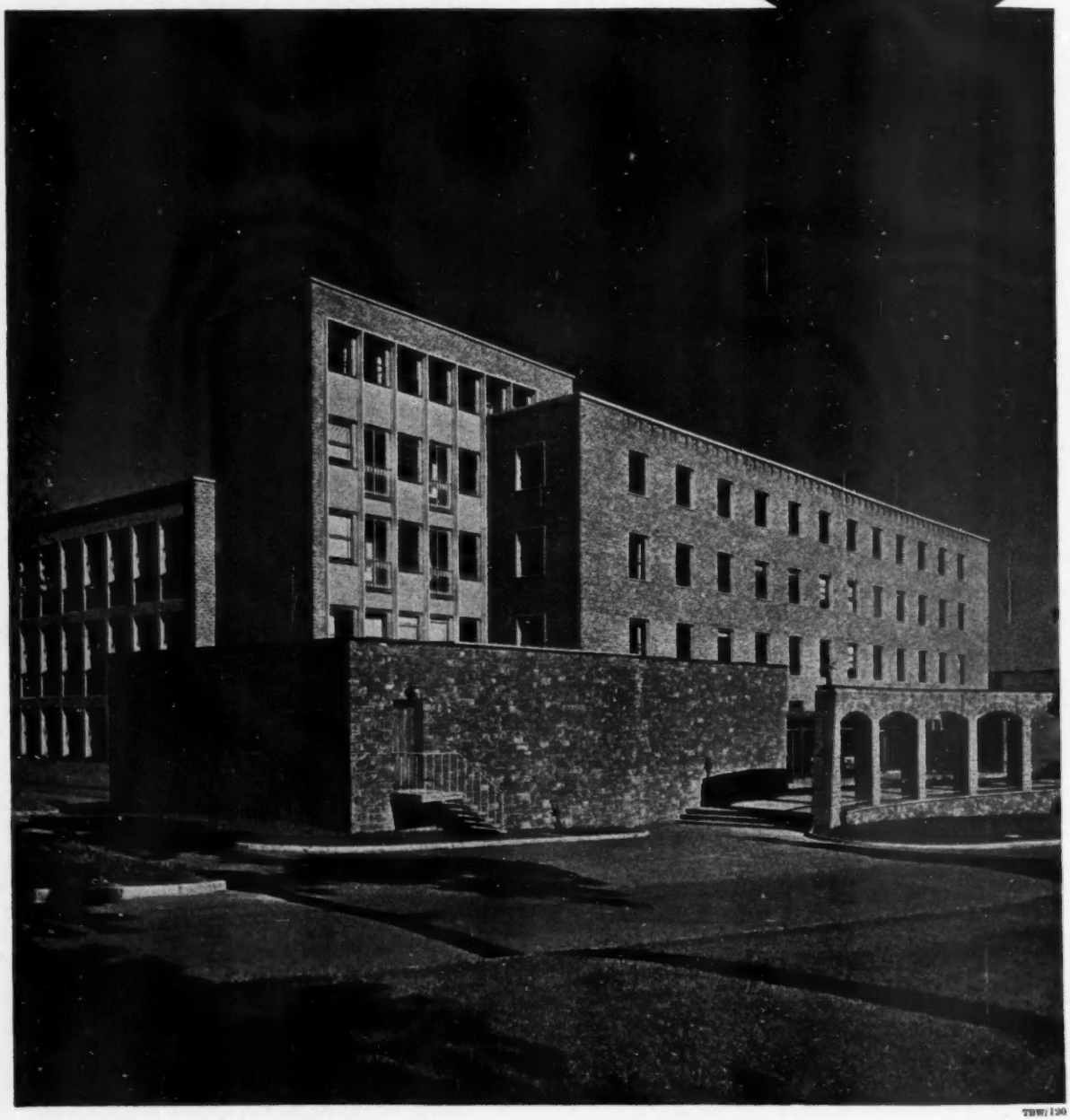

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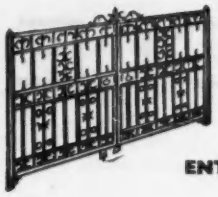

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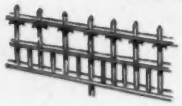

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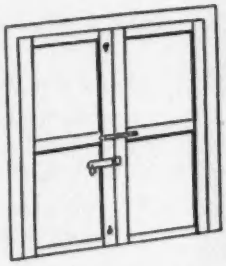

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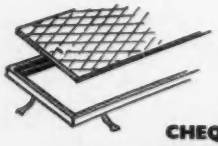

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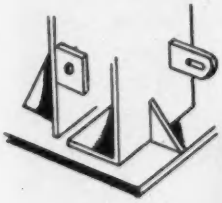

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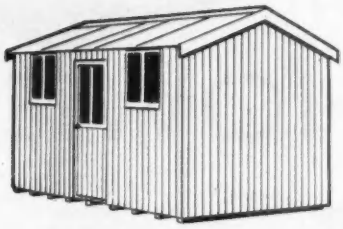

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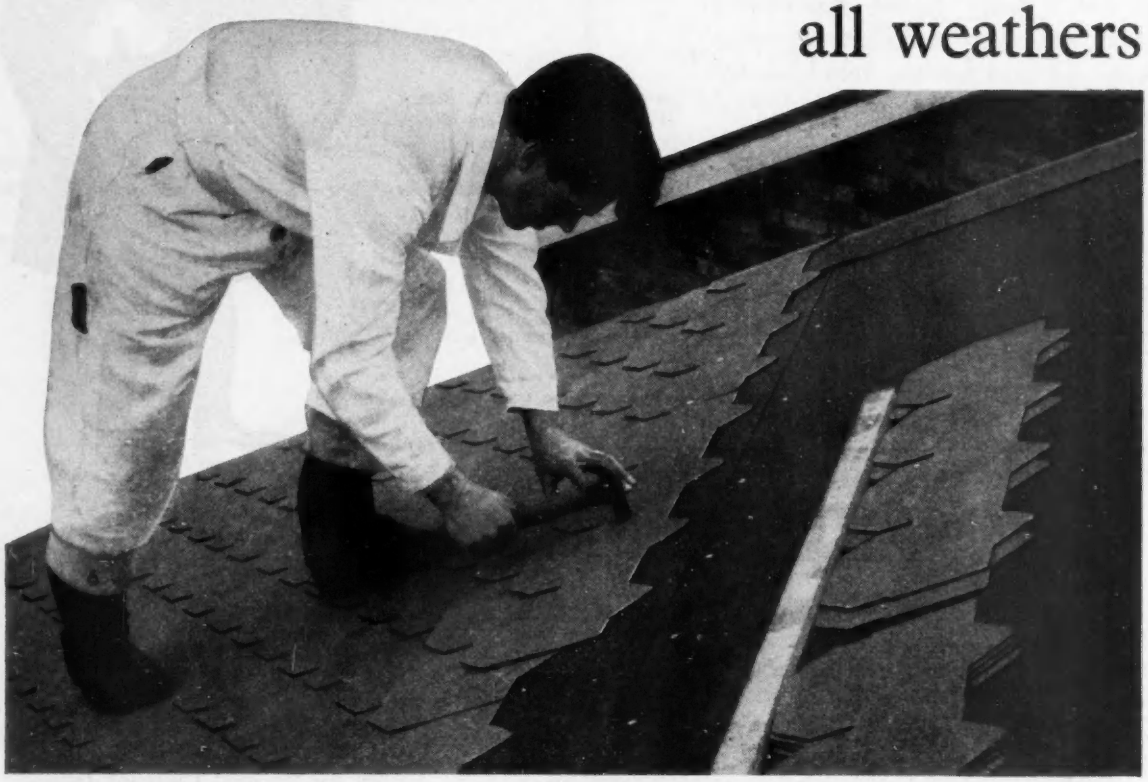

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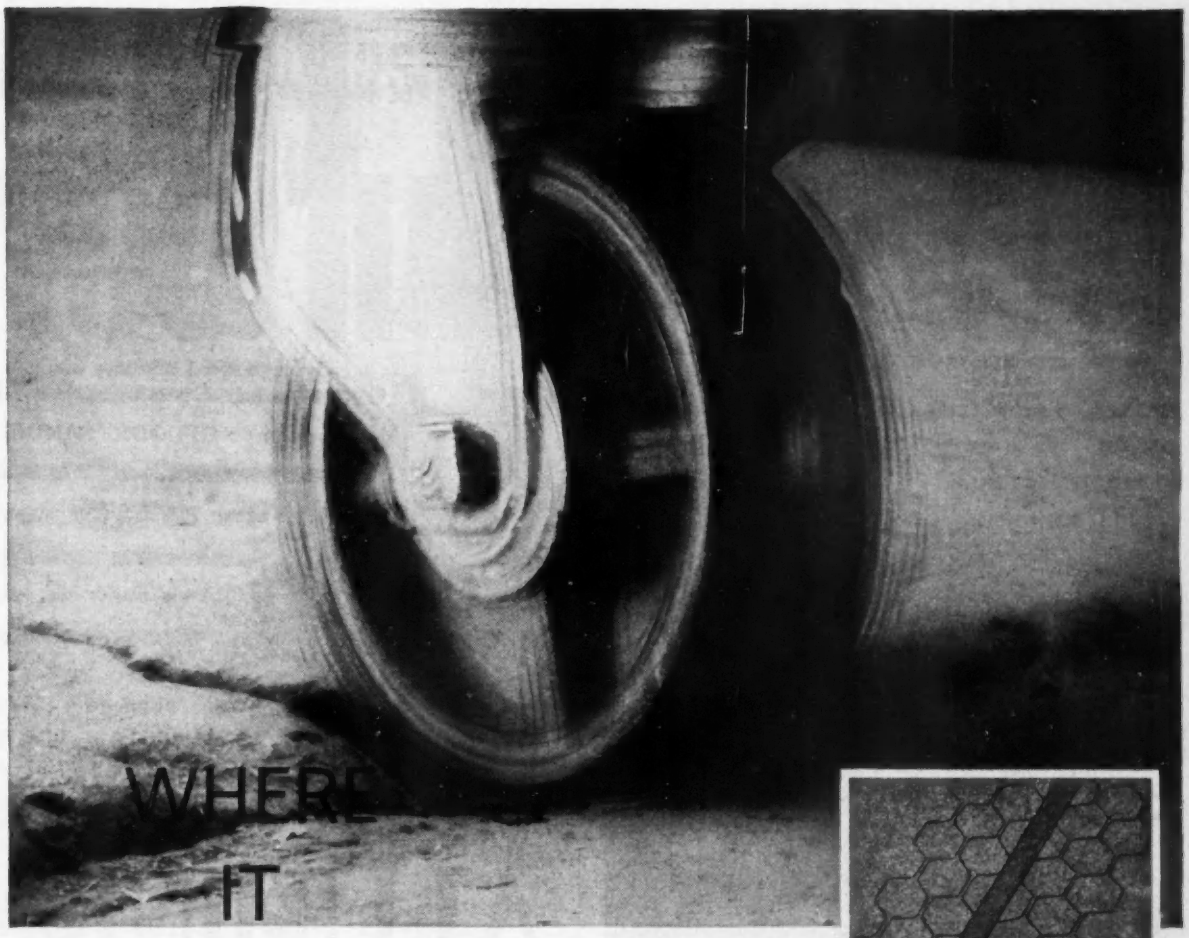

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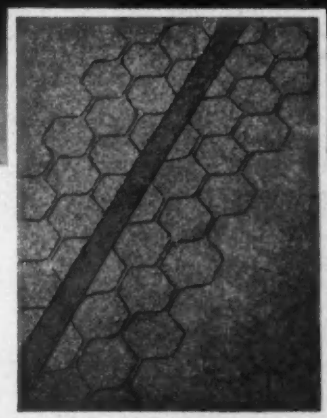

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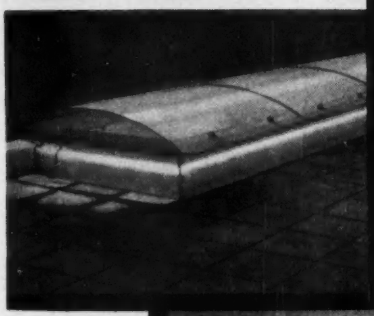
COX DOMES For the Princess Margaret Hospital Swindon



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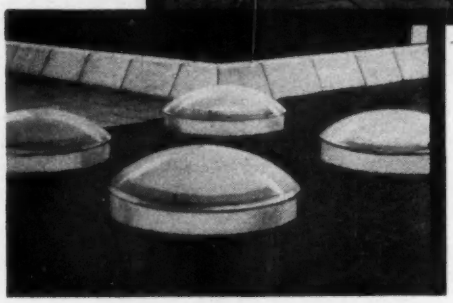

Standard circular Cox Domes

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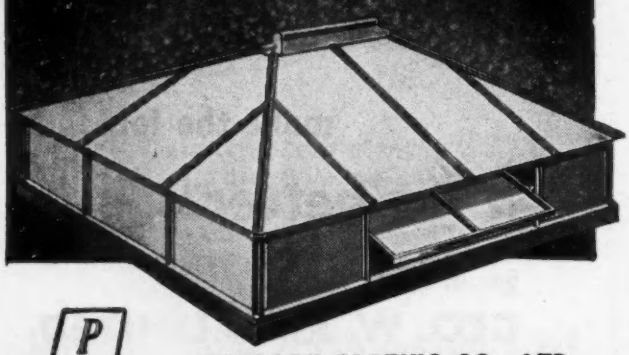

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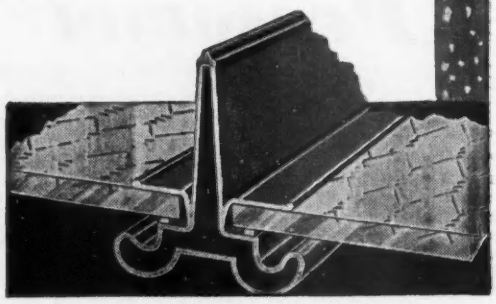

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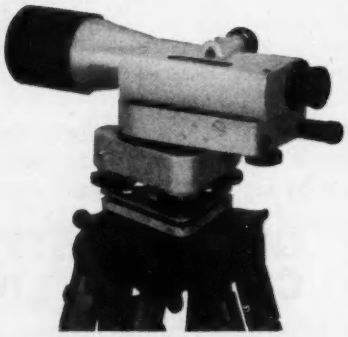

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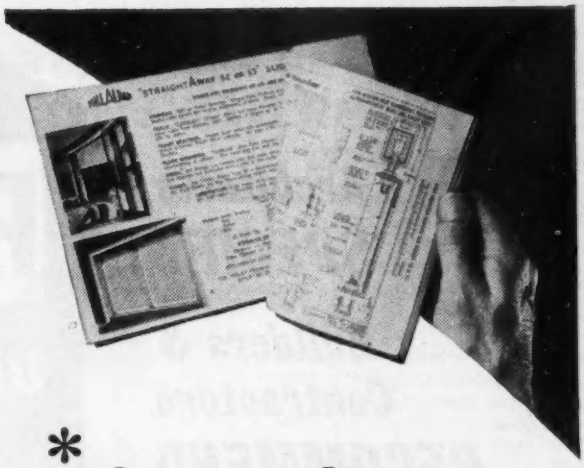

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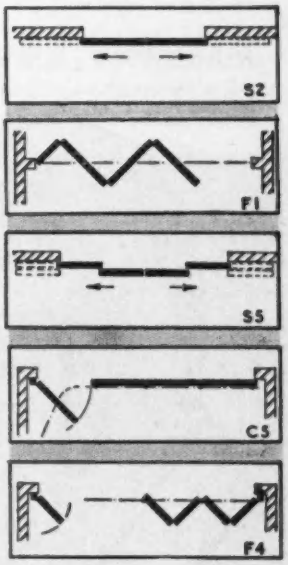

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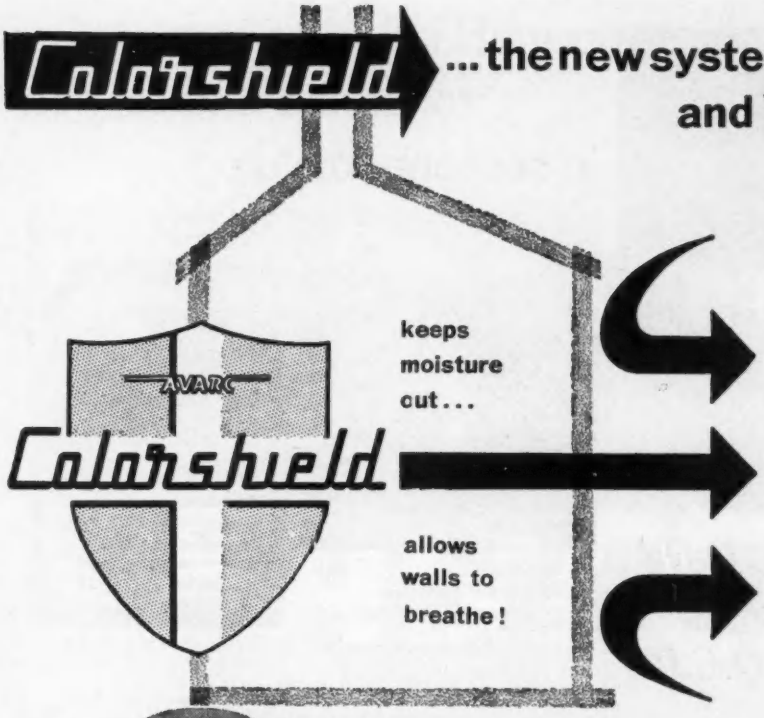

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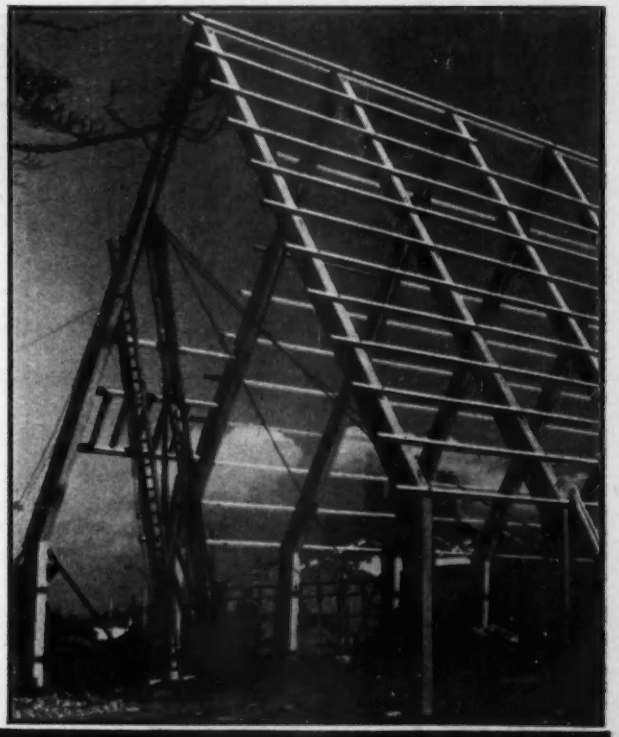

By courtesy of Messrs. Shipley and Foster (Chartered Architects) we show the portal frames to the new Anglican Church, at Sutton Road, Walsall. Clear span 34′ 0″, height to apex 40′ 0″.
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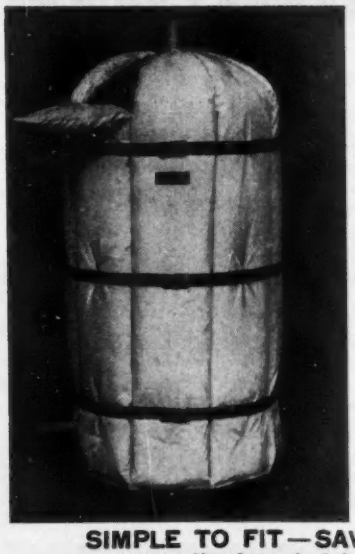

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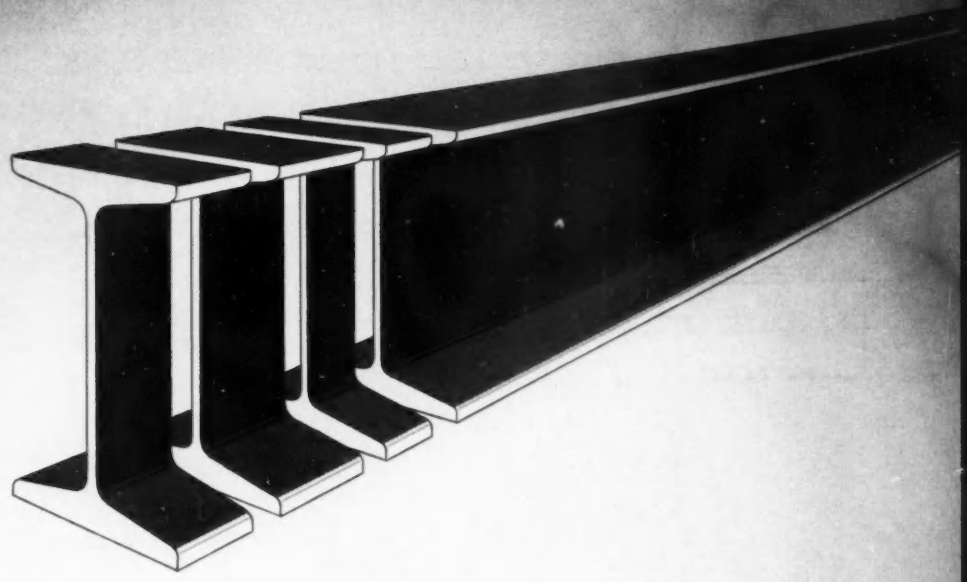

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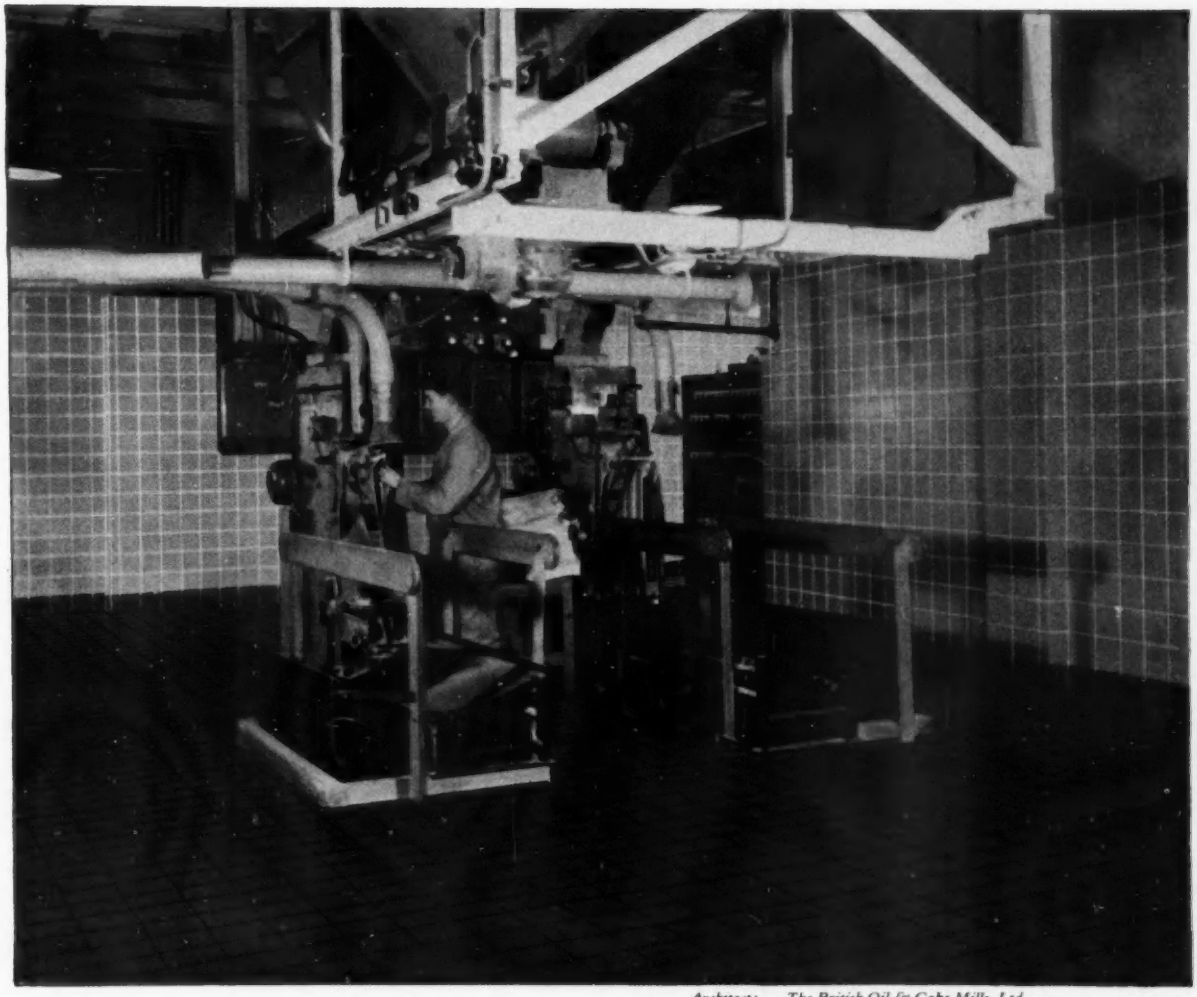

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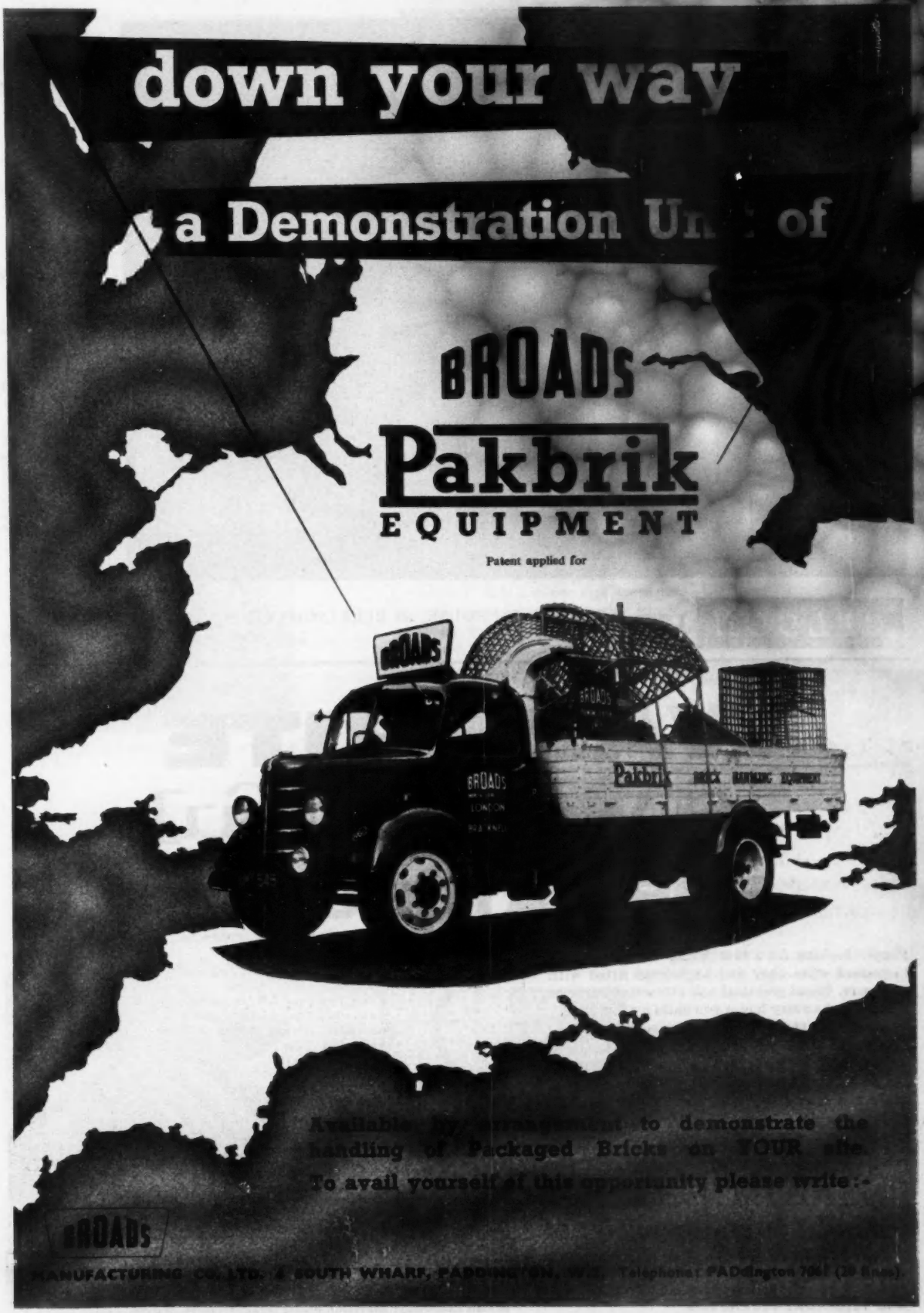
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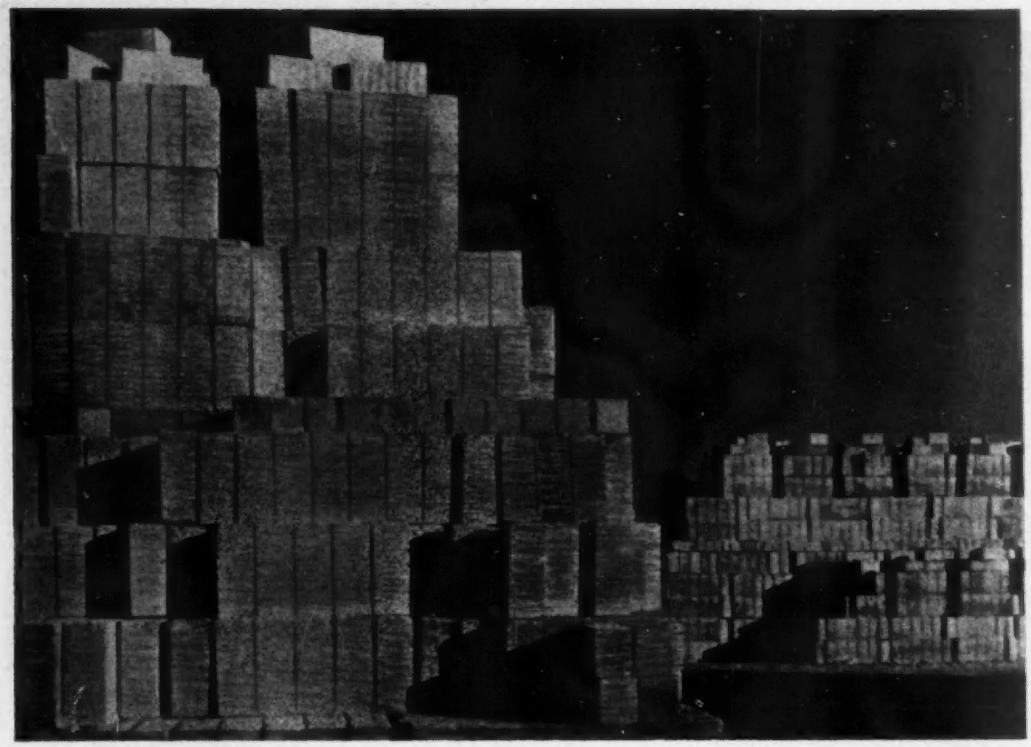

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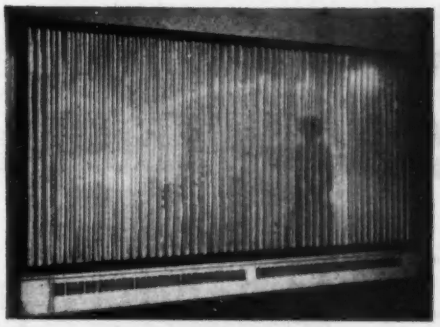

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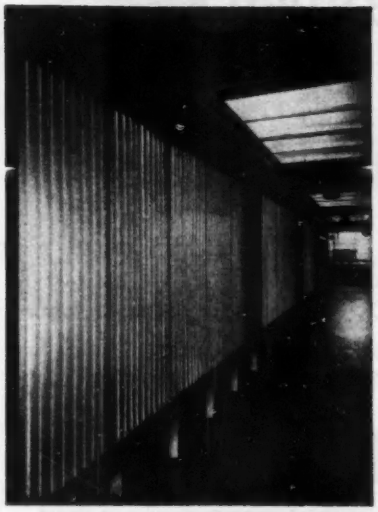

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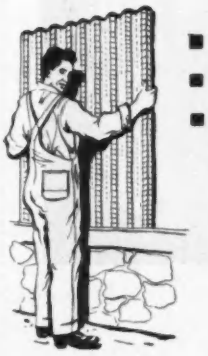

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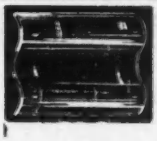

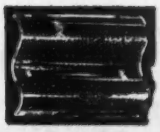

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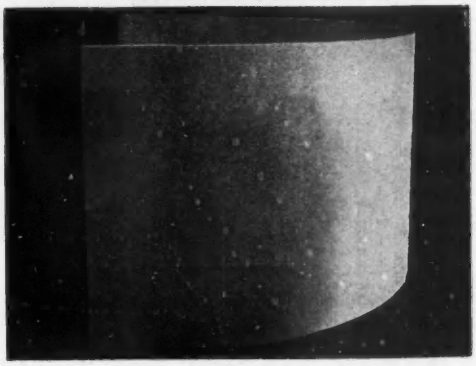

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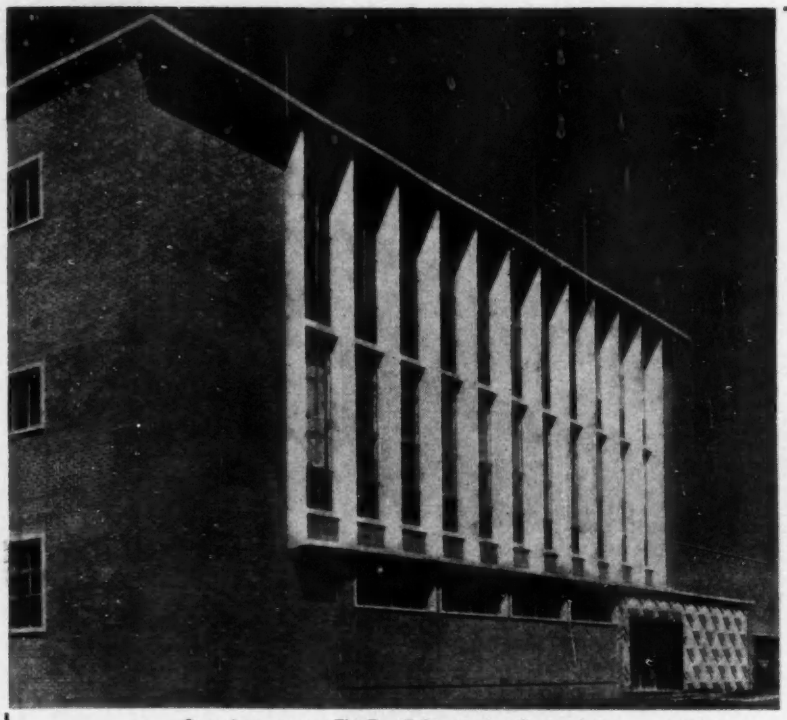

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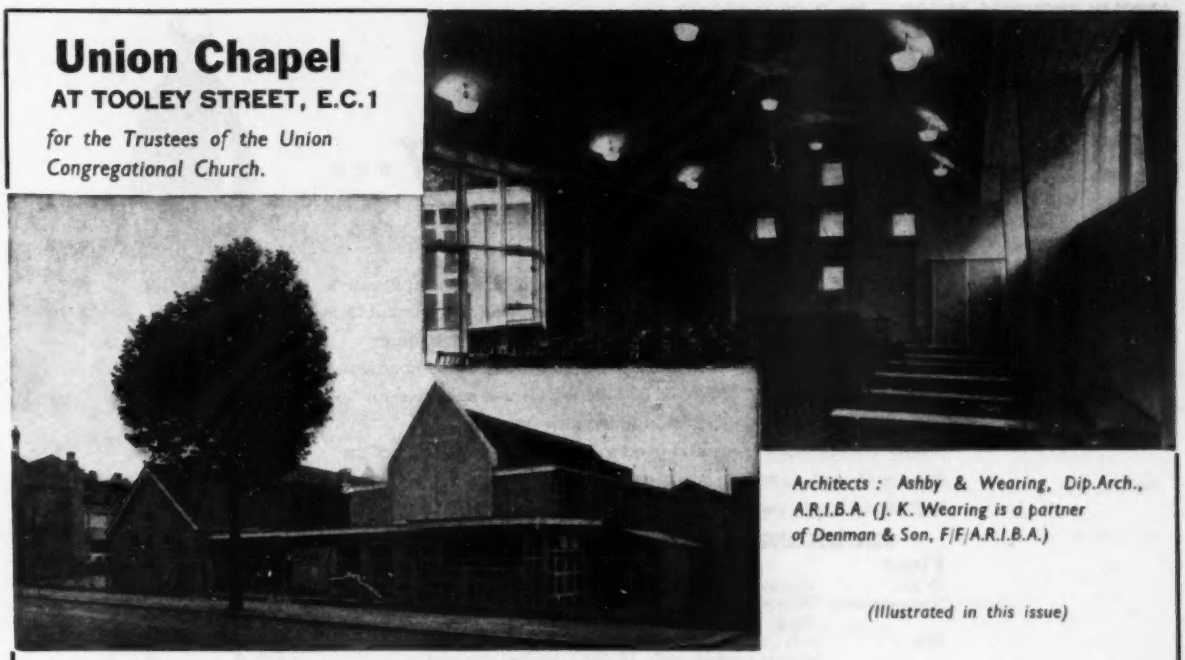

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News Summary

10 *The Government's programme, announced by Mr. R. A. Butler on June 21, for the building of new penal establishments commencing with the construction of the closed prison at Blundeston in Suffolk, is the subject of a special report.*

11 *Architects' and surveyors' incomes are compared in detail in a supplement to the report of the Royal Commission on Doctors' and Dentists' remuneration, published last week.*

17 *The LCC's architectural training scheme, limited to 12 selected students each year, was explained in a special interview with a representative of 'The Builder' by Mr. Hubert Bennett, the Council's Architect.*

20 *The RIBA Council at its meeting last week accepted the Final Report of the Constitutional Committee, and agreed to its publication later this month.*

21 *The Town Planning Institute's education committee is reviewing the Institute's examination syllabus and expects to report to the council with a number of recommendations before the end of the year, the President, Prof. J. S. Allen, told the annual general meeting.*

22 *Some possible implications for the building industry of the Government's plans for pegging expenditure at the level of the current financial year are examined by our Parliamentary Correspondent.*

25 *Land lost to agriculture on account of building in the 20 years up to 1959 amounted to 524,000 acres, the Minister of Agricuture told the Commons.*

25 *The May wholesale price index for all building and civil engineering materials at 146.6 shows a provisional increase of 0.1 per cent over the figure for the previous month. The house-building materials index rose by 0.2 per cent.*

'Late News' will be found overleaf, and 'News of the Week' on page 17

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCIX July 1st 1960 No. 6111

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22 Government Brake on Capital Expenditure: Effects on Building

Some Educational Issues

EDUCATION are too olitics or sectional come across so clear DR. DENIS HARPER'S l,' 'A New Educa- ognises that recent e are by no means students of archi- e last word on this e of the statements three points of his nple framework for me schools of archi- ertake what he calls l, that there should courses based on ere should be means to and from courses

me difficulty. For nterchange between nless there is flexi- ing examinations on t, as yet, exist. As e for long advocated architects, provided l share their joint e paid lip-service to IBA Council seems administrative steps that would make them a reality.

Dr. Harper's other point has subtle implications. He says that *only* universities can undertake the post-graduate research that makes a school first class. But what does he mean by the term 'research' in architecture? If it is scientific, can it be done better in a university than in the laboratories of industry or the Building Research Station? If it is sociological, is it best done within a faculty of architecture? If æsthetic—but the spirit flinches at the association of academic research with the practice of an art! If this is no more than a plea for 'jobs for the dons' we doubt if it need be taken seriously. Every architect worth his salt spends his life in research, studying his clients' requirements, seeking better construction and, if he has it in him, making new works of art.

Dr. Harper's three points may be re-cast as three questions: (a) Would long full-time school courses become more realistic if some post-graduate years were added to them; or are the courses themselves already much too long? (b) What are the obstacles to the establishment of part-time sandwich courses; and how soon can such obstacles be removed? And (c), how can the training of architect, surveyor and builder be brought closer together? Is it too much to hope that the RIBA's new Advisory Council will give its attention to these questions? That council might also consider a fourth matter, closely related to these, but not referred to by Dr. Harper: Should the career of architecture be open to non-specialised graduates; and what relief might such men reasonably expect from the professional examinations?

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of Waterproofed Ready-Mixed Concrete

When, in 1958, the beer cellar of the 'Harp' public house at Parson's Mead, Croydon, was excavated for rebuilding, water was found to be present at a depth of only 3ft. 6ins. below the level of the upper surface of the old floor. To combat these inherently damp conditions 'Pudlo' CEMENT WATERPROOFING POWDER was specified for the READY-MIXED CONCRETE used in the new floor.

'Pudlo Waterproofer' was also used in the internal rendering of the outer walls and, to ensure complete protection from damp penetration a 'Pudloed' cove was formed at the junction of the wall and floor.

TECHNICALITIES:

Floor

Area: approximately 1,250 square feet.
Composition: Waterproof Ready-Mixed concrete to 8" thick, with granolithic surface.
Mix: 4:2:1 reinforced with No. 8 B.R.C. fabric and waterproofed with 16 lbs. 'Pudlo' cement waterproofer per cubic yard of 'SURECRETE' Ready-Mixed Concrete.

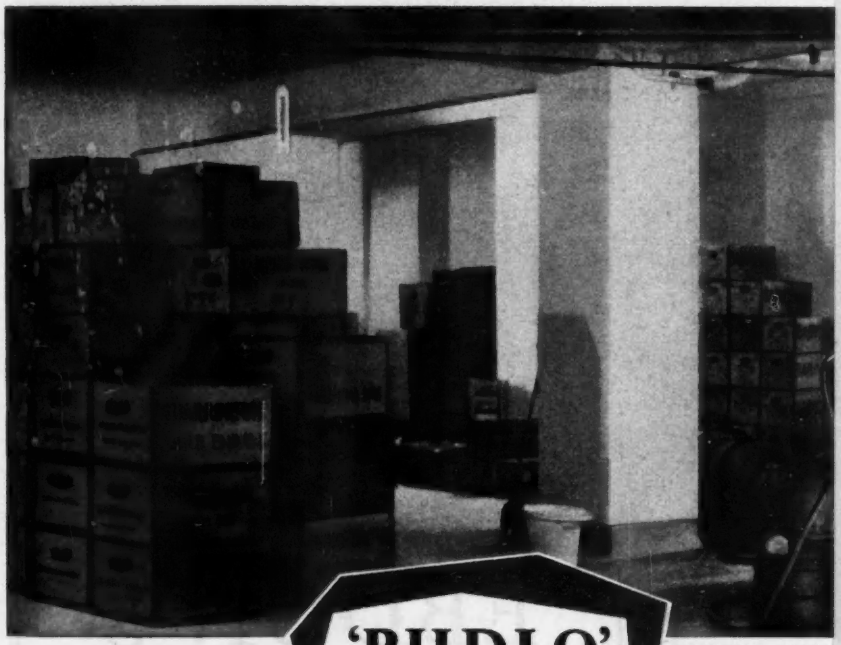
Walls

Hard semi-engineering brick, to a thickness of 13½ inches.

Internal Rendering

Two parts Westerham Sand.
One part Portland Cement.
5 lbs. 'Pudlo' to every 100 lbs. cement, applied in three coats to a minimum thickness of one inch.

Beer Cellar of the 'HARP' Parson's Mead, Croydon. By Courtesy of Page and Overton's Brewery Ltd.



'PUDLO'

Architects: Leonard Chignall & Son, F.I.A.A., M.INST.R.A., M.R.SAN.I. Romford.
Contractors: Galbraith Bros., Crayford

CEMENT WAT
other 'PUDLO' pr
Cement Paint Primer,
Plaster Bonder, Frost
Cement Hardener/Du

WT.18 Sole Proprietors and Manufacturers KERNER-GREENWOOD & CO. L

Telephone: K

Late News

More Land for Building

MR. HENRY BROOKE, Minister of Housing and Local Government, had a meeting with the Prime Minister at 10 Downing-street on Tuesday and (writes our Parliamentary Correspondent) it is probable that the increasing cost of building land was discussed.

Asking the Minister of Housing and Local Government in the House of Commons on Tuesday if he was aware of the rapidly increasing prices of land in urban areas which increased considerably the cost of houses and, consequently, rents, MR. S. AWBERY suggested that the Minister should set up a committee to inquire into 'this exploitation of values created by the community.'

SIR KEITH JOSEPH, Parliamentary Secretary, stated in a written reply: 'The Minister is aware that the price of land has risen sharply in areas where competition for it is most acute. What he is anxious to do is to increase the supply—by providing more land for development (where that does not conflict with important planning objectives) and by encouraging fuller use of land within the towns. These are matters which planning authorities and the department are reviewing. I do not think that a committee of inquiry would help.'

Himalayan Expedition Hut

SIR EDMUND HILLARY, with Lady Hillary, and Dr. L. G. C. Pugh (of the Medical Research Council) were the guests of Mr. W. S. Jones, FIOB, at a luncheon at Skindles, Maidenhead, on Tuesday to celebrate the handing over of a sectional laboratory hut which will serve as a headquarters building for the 1960-61 Himalayan expedition which Sir Edmund is to lead. Some details of the hut, with a drawing, are on page 23.

Responding to Mr. Jones, who wished the expedition God speed, SIR EDMUND congratulated the firm, J. M. Jones & Sons, Ltd., of Maidenhead, on carrying out the design in the surprisingly short time of three weeks. It would be erected approximately 20,000 ft. up, he said, and would enable research to be carried on into the behaviour of the human body in rarefied atmosphere. He also thanked the Timber Development Association, whose design team, lead by Mr. E. Levin, designed the 22 ft. long hut, and the British Plywood Manufacturers and other suppliers, including Leicester Lovell & Co. Ltd., who made the adhesives, and paid a special tribute to Mr. W. T. Sauteur, project manager to Messrs. J. M. Jones.

'I shall see to it that you get full information as to the hut's behaviour under the testing conditions it will face,' said Sir Edmund, 'always provided that we are not blown away! It is a new development in high altitude work of which we expect much.'

The Builder

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Some Educational Issues

THE REAL ISSUES IN ARCHITECTURAL EDUCATION are too often obscured by professional politics or sectional interests. It is, therefore, pleasant to come across so clear an exposition as that supplied by DR. DENIS HARPER'S article in the current 'RIBA Journal,' 'A New Educational Framework.' Dr. Harper recognises that recent pronouncements from Portland Place are by no means generally accepted by architects and students of architecture—or by builders either—as the last word on this subject. Many would question some of the statements made by Dr. Harper himself, but the three points of his conclusion do indeed represent a simple framework for discussion. He says, first, that full-time schools of architecture, to be satisfactory, must undertake what he calls active post-graduate research; second, that there should be part-time sandwich or combined courses based on offices *and* schools; and third, that there should be means for architectural students to transfer to and from courses in building.

Each of these points involves some difficulty. For example, there can be no effective interchange between architectural and building training unless there is flexibility in the application of the qualifying examinations on either side. Such flexibility does not, as yet, exist. As to part-time sandwich courses, we have for long advocated them as a reasonable means of training architects, provided that schools and offices accept and share their joint responsibility. The Oxford Conference paid lip-service to the need for such courses, but the RIBA Council seems as far as ever from taking the simple administrative steps that would make them a reality.

Dr. Harper's other point has subtle implications. He says that *only* universities can undertake the post-graduate research that makes a school first class. But what does he mean by the term 'research' in architecture? If it is scientific, can it be done better in a university than in the laboratories of industry or the Building Research Station? If it is sociological, is it best done within a faculty of architecture? If æsthetic—but the spirit flinches at the association of academic research with the practice of an art! If this is no more than a plea for 'jobs for the dons' we doubt if it need be taken seriously. Every architect worth his salt spends his life in research, studying his clients' requirements, seeking better construction and, if he has it in him, making new works of art.

Dr. Harper's three points may be re-cast as three questions: (a) Would long full-time school courses become more realistic if some post-graduate years were added to them; or are the courses themselves already much too long? (b) What are the obstacles to the establishment of part-time sandwich courses; and how soon can such obstacles be removed? And (c), how can the training of architect, surveyor and builder be brought closer together? Is it too much to hope that the RIBA's new Advisory Council will give its attention to these questions? That council might also consider a fourth matter, closely related to these, but not referred to by Dr. Harper: Should the career of architecture be open to non-specialised graduates; and what relief might such men reasonably expect from the professional examinations?

Deflating the Football

THE CHANCELLOR'S ACTION in deflating the football of national economy has not come too soon, for the bladder of resources and manpower has been stretched over-thin for safety. Whether the addition of 1 per cent to Bank Rate, plus calling for a further deposit of assets by the joint stock banks will be sufficient, time only will tell. There can be few in the building industry who will not feel glad if the present effect is to ease the pressure on the contracting side—from manpower, materials and plant shortages. While the industry is grateful to development speculators who provide it with much work, it is possible to have too much of a good thing, especially when such development is often accompanied by disruption of the local labour situation. If MR. HEATHCOAT AMORY'S move means that some development schemes go into cold storage for a time, this could be no bad thing.

Not only private developments will be affected, of course. The Government is holding an immediate review of its spending and priorities in building will undoubtedly be settled. It seems as though social and welfare services, particularly hospital building, and educational building will be left largely untouched, but that roads and power installations and railways may be cut back. Slum clearance is unlikely to be affected (MR. BROOKE has had too difficult a time in getting the trickle of schemes up to its present respectable flow to wish for any recession), but other municipal housing is unlikely to increase, if only for the reason that Public Works Loans rate has been advanced. We shall fervently hope that, in making its plans, the Treasury will keep well in mind the need, as the industry sees it, of so arranging its cuts as to put the smaller builder at no disadvantage with the large firm.

New Deal Wanted for the Conference

THE BRITISH ARCHITECTS' CONFERENCE recently concluded in Manchester may well be the last on the current pattern if younger members of the RIBA have their way. One of these, MR. JOHN PARTRIDGE, in a letter which appears on page 13 of this issue, suggests that the time has come when the Conference should be given 'an entirely new facelift'; his comments, in fact, go further and contemplate something near a complete revision. There will be few present at Manchester who will not agree with him.

This is not to say that Manchester was a failure; indeed, judged by previous standards, it was as successful as any since the Torquay conference of 1954. The truth is, of course, that the emphasis on serious study has developed and the importance of the Conference's social side (which absorbs two afternoons and three evenings) is seen to be less. A new plan which could include discussion of a commissioned project leading, in suitable cases, to the adoption of a formal resolution to be forwarded to the appropriate authority, Minister or other, is suggested by Mr. Partridge in his interesting letter. No doubt there are other ideas on foot, and we hope that the anonymous group at the RIBA who plan the conferences will take heed of them. Whatever ideas they adopt, the group should take heed that there is an entirely praiseworthy consensus of opinion about among younger architects that the present pattern of British Architects' Conferences is well out of date and needs replacing by something more dynamic.

Notes of the Week

Park Lane Hotel; Builder Among the Lions; The C and CA Garden Party; Improved Housing

THERE ARE SIGNS, and welcome signs, that public opinion is rallying against the proposal to erect the Hilton-Clore hotel in Park-lane. Mr. Yehudi Menuhin's letter in the 'Daily Telegraph' (noted in our last issue) was followed by a short debate in the House of Lords on Tuesday of last week initiated by Lord Amulree in which attention was drawn to the Royal Fine Art Commission's disapproval both of the original scheme for this hotel and for the revised scheme (shown on facing page) on the grounds that the building was likely to destroy the rural atmosphere of Hyde Park. Lord Amulree was supported by Lord Mottistone who asked the Government to enunciate a policy to define the encompassing skyline for the guidance of developers and of the local authority.

Replying for the Government, Earl Waldegrave took the view that the question of high buildings round Hyde Park 'has to be a matter of compromise.' The Minister of Housing and Local Government and the local planning authorities, he said, would secure that there was not a cliff of continuous high buildings round the parks and in the open spaces in the centre of London. Provided that that evil did not take place, said Earl Waldegrave, Mr. Brooke felt that properly designed buildings, properly placed and spaced, were and must be acceptable in this modern age.

* * *

AT THE END OF THE DEBATE Lord Alexander of Hillsborough acidly suggested that if there was to be an overhaul of planning procedure (a proposal made by Lord Mancroft) it might include the Royal Fine Art Commission as well. This is manifestly unfair, for the Commission, as long ago as April of last year, issued a categorical objection to the hotel proposal (see 'The Builder' of May 8, 1959) in which it put the case for the users of the Park as against the users of the hotel, and went on to say that if permission were given, as in this case, for an exceptionally high building, it did not see how it would be possible to refuse permission for other exceptionally high buildings at different points on the perimeter of the central parks. The revised hotel, it may be noted, would be about 320 ft. high.

The present situation is that the LCC has passed plans for the revised scheme and a building contract has been placed. Is it too late for action to be taken? We should hope not. Not only would this be the first step towards ruining the central London parks (for already another proposal for a hotel on the Bayswater-road side of Hyde Park is on foot) but it could play an important part in forcing up land values. There can be little doubt that the belief among developers that, given attractive arguments, the planning regulations can be overcome, plays a large part in pushing up site costs to their present often fantastic levels. Earl Waldegrave virtually admitted this when he said in the Lords debate: 'The main purpose of putting up a building of this type is that it would be more remunerative. It is extremely difficult to pay the cost of a central London site without putting a very large building upon it.' From every point of view, economic as well as amenity, this hotel project wants looking at again.

Builder Among the Lions

THE PRESENTATION on Tuesday of last week of the London Architecture Bronze

The amended design for the Hilton-Clore Hotel, Park-lane (Lewis Solomon, Kaye and Partners, architects). See first Note

Medal for the LCC Roehampton flats was not one of the best we remember. Mr. Hubert Bennett, who received the award on behalf of the housing division of the Council, was a little diffident—understandably so as the scheme was prepared under the direction of his predecessor, Sir Leslie Martin. Just the same, it was pleasant to hear him giving full credit to the contribution of the housing department, credit which was endorsed by Mr. Norman Farmer, Deputy Chairman LCC.

The most important contribution was made, perhaps, by Mr. Norman Wates. Responding for his firm, Wates, Limited, who carried out the £5m. contract, he commented on the fact that there had been excellent co-operation between the clients and his firm which went so far as enabling a change of system to bring in pre-cast elements instead of 'in situ' design as originally proposed. This had made considerable savings in time. 'But,' said Mr. Wates, 'it would have been even more successful had we been able to integrate our construction methods from the outset into the design, and I am sure had this been done there would have been savings to the client both in terms of speed and rent, as well as cost.

'I hesitate to say anything that might be considered critical of modern architecture,' Mr. Wates added, 'but I feel that our buildings are mean in point of finish and costly in point of structure, and I think that by the integration of the builder and his know-how into design, money could be saved in the bones of the structure which could be spent on finishing, with long-term benefit to the occupier.'

* * *

MR. WATES RAISES, of course, the question of the nominated or selected contractor—a course widely advocated which, nevertheless, does not appear to have made much progress, if answers given by the recent LMBA central area No. 1 'brains trust' are accepted. The difficulty is, of course, how to assure clients (especially public authority clients) that they are getting a competitive price. Subsequent to the RIBA ceremony, Mr. Wates gave as an example of economic building the system by which the supporting structure of the tower crane is built-in to the framework and afterwards acts as a lift-shaft. This, he thinks, makes for big economies but depends on the building being designed to make allowance for special reinforced elements round the shaft, which points in turn to collaboration at the time of design. The problem is a knotty one, and the industry must find an answer if, in suitable cases, the builder is to be allowed to bring his special knowledge into construction.

C and CA Garden Party

THE CEMENT AND CONCRETE ASSOCIATION'S delightful research laboratories at Wexham Springs, near Slough, were the scene on June 22 of the annual garden party when the Association, headed by the chairman, Mr. E. Yetton and the director, the Hon. Leo Russell, entertained its friends. Several hundred distinguished architects and engineers were present, and were entertained by a string band and generous hospitality in a marquee which Mr. Robert Atkins would, no doubt, give his ears to transport to Regents Park. On display were the various sides of the Association's important work in the development of the cement and reinforced concrete industry, where the visitor's eye was especially taken by a display of precast concrete surface finishes and by a town garden designed by Miss Sylvia Crowe. Glorious weather offered no inducement to explore the house, but those who did could see an excellent photographic display of concrete work in South America.

Improved Housing

IMPROVED HOUSING, new and old, is in the news, first at Dunkeld where the National Trust for Scotland is to show during the summer a house at The Cross, which it has restored, to demonstrate how effectively an old house can be made into a new home. And the Ministry of Housing has issued an attractive booklet 'New Houses in the Country' whose purpose is to show the ordinary man who wants a home in the country how to get it without ruining the countryside. Runs the last sentence: 'Anyone proposing to build a new house in the country on a site where the appearance is important would do well to obtain advice from an architect on all questions of design and materials.' Were this advice proffered to intending owners of all houses wherever sited, it would not have been out of place.

Poet's Corner

IT IS reported that under the new recommendations for the preservation of Victorian and Edwardian buildings of special historic or architectural interest, no pub has yet been listed.

Not a single rococo Victorian pub!
That tavern of fantasy, working-class club,
With its ornate mahogany counters and shelves
And 'snob-screens' for patrons to 'keep to themselves';
Walls of mirror glass, frosted, engraved, yet revealing,
And a rich anaglypta or lincrusta ceiling;
Cast-iron tables enriched with polished brass rails,
And seats (padded horsehair) where comfort prevails;
Barrels, bottles and pewter in motley profusion—
A period picture of 'crafty' illusion—
Was ever there building more highly deserving
Of listing and study and careful preserving?
What a chance for our devotees' best panegyrics!
Mr. Betjeman, do give us one of your lyrics.

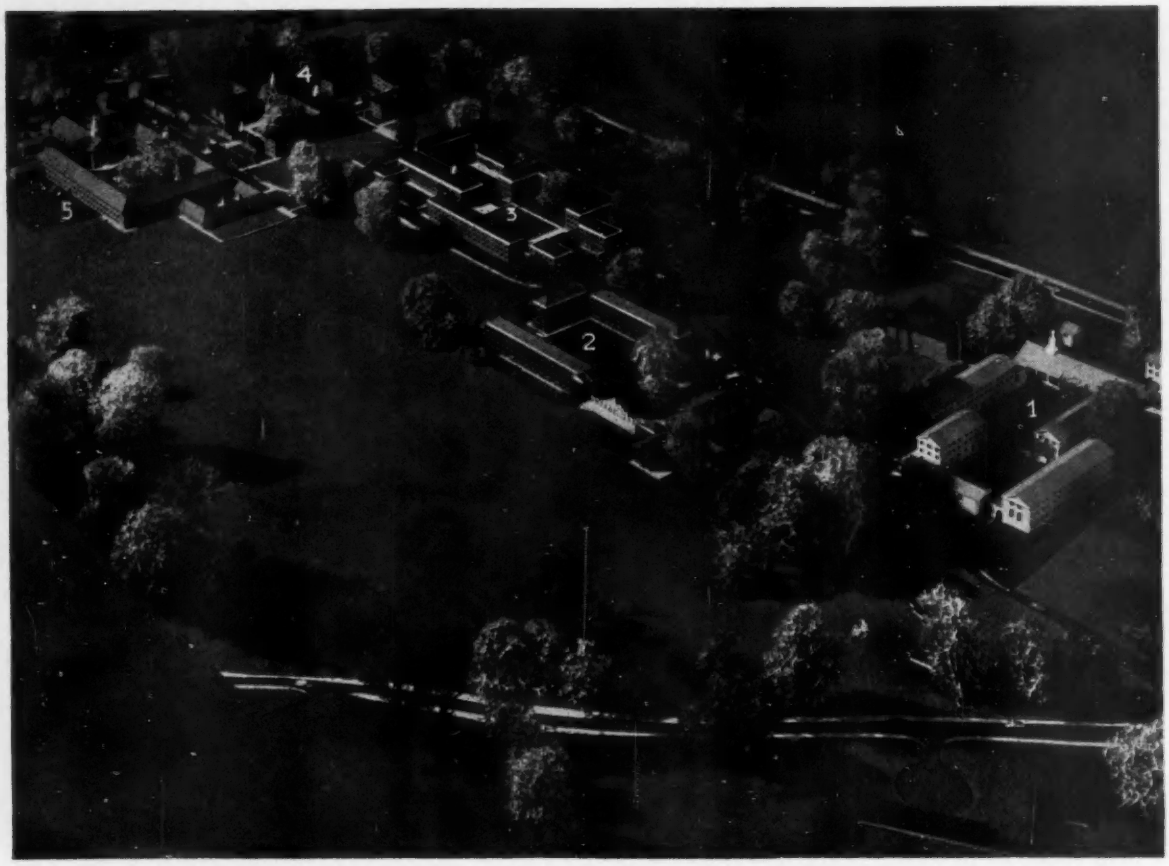
ANON.

Proposed Halls of Residence

For the University of Nottingham

D. H. MCMORRAN, ARA, FRIBA, architect

B. O'RORKE, RA, MA, FRIBA, architect



Arrangement of the five halls of residence for men students, which are sited in the university park. Accommodation is provided for 1,050 students, plus an additional hall for 150 women students. By 1968 the student population is expected to be 4,000, of which slightly more than half will be residential

THE UNIVERSITY OF NOTTINGHAM is planning to meet the residential needs of an expected increase in the number of students from the present figure of 2,500 to 4,000 in 1968. Five halls for men and one for women students have been approved which, with the existing halls, will provide residential accommodation for about 2,100 students or a little over half the anticipated student population. Each of the five men's halls will house 210 students and the women's hall 150 students. There will be separate Wardens' houses, and suites for six resident dons, in each of the men's halls. A Warden's suite of rooms and four flats for women dons have been incorporated within the women's hall. Each hall has accommodation for the necessary service staff.

A portion of the University Park, about 60 acres in extent and bounded by Derby-road and Beeston-lane, has been set aside for the development. There will be a road through the site which will link up with the general interior road system of the University Park as a whole and will allow free access to other parts of the site from the new halls without having to use any part of Derby-road. The University District Heating Scheme will also be extended to the site and will thus obviate the need for local heating stations. Particular care has been exercised by all the architects to preserve the wooded character and the special attraction of the area. The quantity surveyors are Gleeds of Nottingham, and John Howitt and Son, F/ARIBA, are responsible for the road layout.

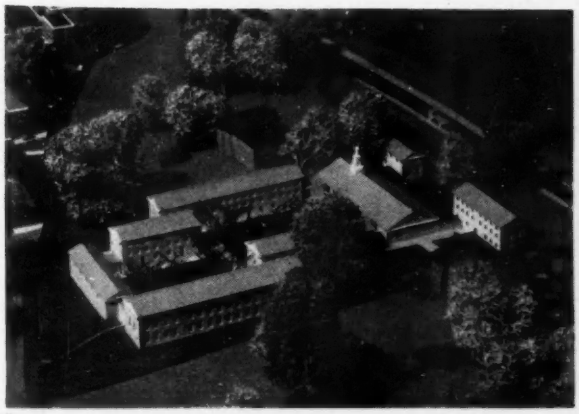
All the halls have been designed on a courtyard principle plan, with staircase access to the study bedrooms. The siting and relationship of each hall has been carefully worked out to allow singular identity in layout and finish.

J. FLETCHER-WATSON, FRIBA, architect

F. E. WOOLLEY, FRIBA, architect

W. H. WILLIAMSON, FRIBA, architect

SIR PERCY THOMAS, PPRIBA, consulting architect



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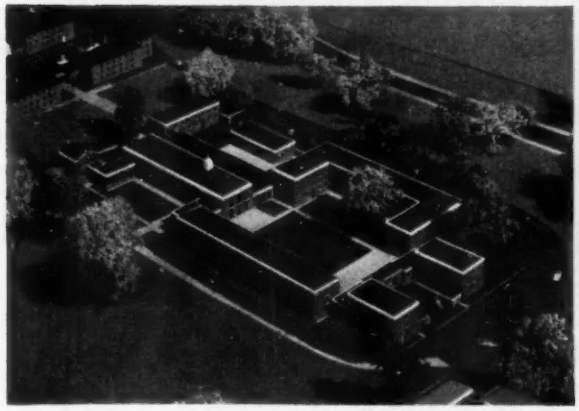

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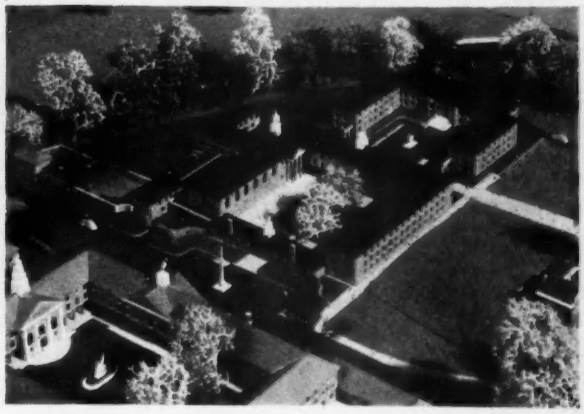


1, design by D. H. McMorran, ARA, FRIBA. 2, design by F. E. Woolley, FRIBA. 3, design by B. O'Rorke, ARA, MA, FRIBA. 4 and 5, designs by J. Fletcher-Watson, FRIBA. All halls are based on a courtyard plan

A competition was sponsored in 1950 for the women's hall of residence, but the winning scheme by Turley & Williamson was not proceeded with because of a change in University policy. The scheme has been revived in a modified form adapted to the new site and changed requirements, but the main architectural characteristics of the prize-winning design have been retained. The new scheme has been prepared by W. H. Williamson, FRIBA, with Sir Percy Thomas acting as consultant architect. Messrs. Gleeds are again the quantity surveyors.

The new site lies south of the existing Florence Nightingale Hall and adjacent to the school of music. Owing to site restrictions and the need to conserve the open park-land in this area for future development, the blocks will be four and five storeys. Work on this scheme is expected to begin in March, 1962.

5

Confectionery Factory, Derby

For the Nestlé Company, Ltd.

HAMMOND J. HARVEY, FRIBA, FRICS, architect

Main frontage, with offices and canteen on the left

THE NESTLÉ COMPANY required a new confectionery factory in the Midlands area of England, with access by road and rail to all main arteries, and in a locality where labour difficulties would not be encountered. After considerable search the site at Mickleover, Derby, was purchased and plans were then prepared.

The 10-acre site is of irregular shape and the planning of good road access, future rail siding, and economical use of the site proved to be the main problems. These factors determined floor levels and the general outline of the building.

Town planning required the main frontage to be set parallel with the road, which resulted in an oblique shaped plan to utilise the site to the utmost and to allow for future extensions. This has proved satisfactory in every respect for the working of the factory. A canteen has been positioned on the top floor over the office block.

The structure of the building is of reinforced concrete. The frame is brick cladded with Brockleys 'Park Royal' facings on the main elevations. The remainder are London Brick Company 'Tuscon' facings. The frontage has slender concrete sun-baffles to the offices and canteen windows. These fins were cast 'in situ' and special care given to ensure that true lines were achieved.

Considerable attention had to be given to insulation. Several areas of the factory are air conditioned and windows in these areas have double glazing and the roofs are insulated with 2 in. vermiculite and fibre board.

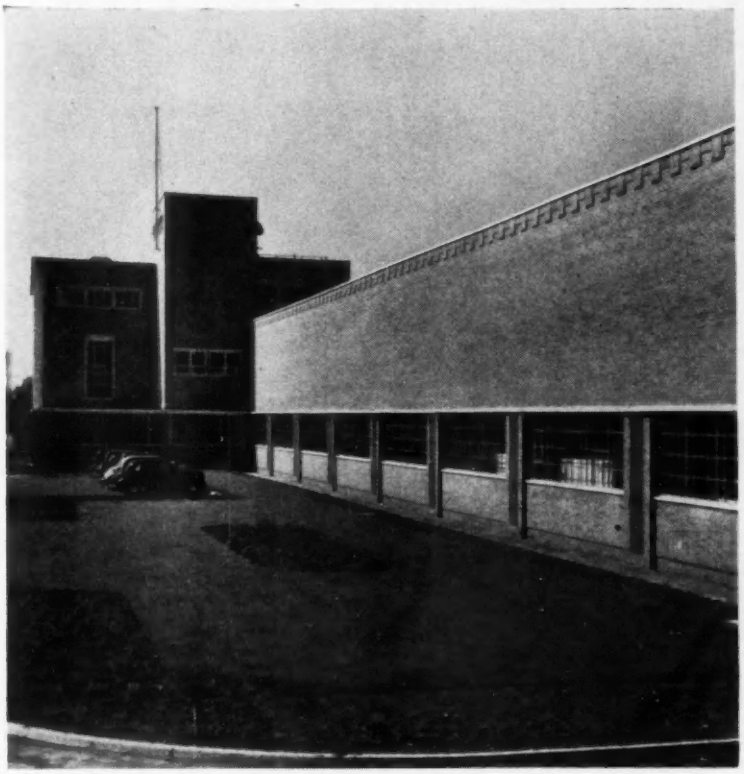
The clients were against rendering or otherwise treating the concrete internally, and all structural work is as left from the formwork.

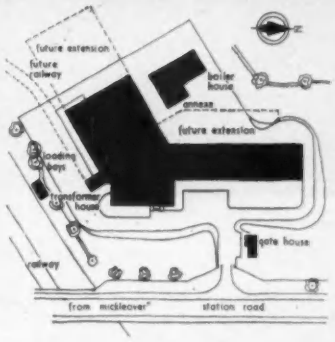
The building comprises 70,000 sq. ft. of floor area, finished in granolithic cement, laid by E. J. Elgood, with areas of industrial and other tiles.

Sub-contractors & Suppliers:

Reinforcement steel: G.K.N. Reinforcements Ltd.; *acid-resisting paving:* Corrosion Proof Products Ltd.; *terrazzo and marble work and internal tiling:* Jaconello Ltd., Proctor & Lavender Ltd.; *glazed cement work:* Modern Surfaces Ltd.; *concrete facings:* Naybro Stone Ltd.; *asphalt:* Permanite Ltd.; *acoustic ceilings:* Hall & Co.; *ironmongery:* Comyn Ching & Co. (London) Ltd.; *metal windows:* W. James & Co. Ltd.; *roof lights:* Wottons (Croydon) Ltd., Henry Hope & Sons Ltd.; *rubber doors:* Mancuna Engineering Ltd.; *sliding doors:* E. Hill Aldam & Co. Ltd.; *fire-resisting shutters:* Shutter Contractors Ltd.; *iron stairs:* Haywards Ltd.; *balustrade:* Fredk. Braby & Co. Ltd., Bettles & Sons Ltd.; *w.c. partitions:* The Crittall Manufacturing Co. Ltd.; *road surfacing:* Derby Pavings; *goods lift:* Otis Elevator Co. Ltd.; *sanitary fittings:* John Bolding & Sons Ltd.; *glazing, patent roof glazing, aluminium windows, splash backs:* Wottons (Croydon) Ltd.; *incinerators, plumbing:* J. H. Shouksmith & Sons Ltd.; *heating, ventilating and air conditioning:* W. H. Taylor (Derby) Ltd.; *entrance doors:* Ajax Architectural Products Ltd.; *sewerage pump installation:* Tuke & Bell Ltd.

THE TURRIFF CONSTRUCTION CORPORATION, general contractors





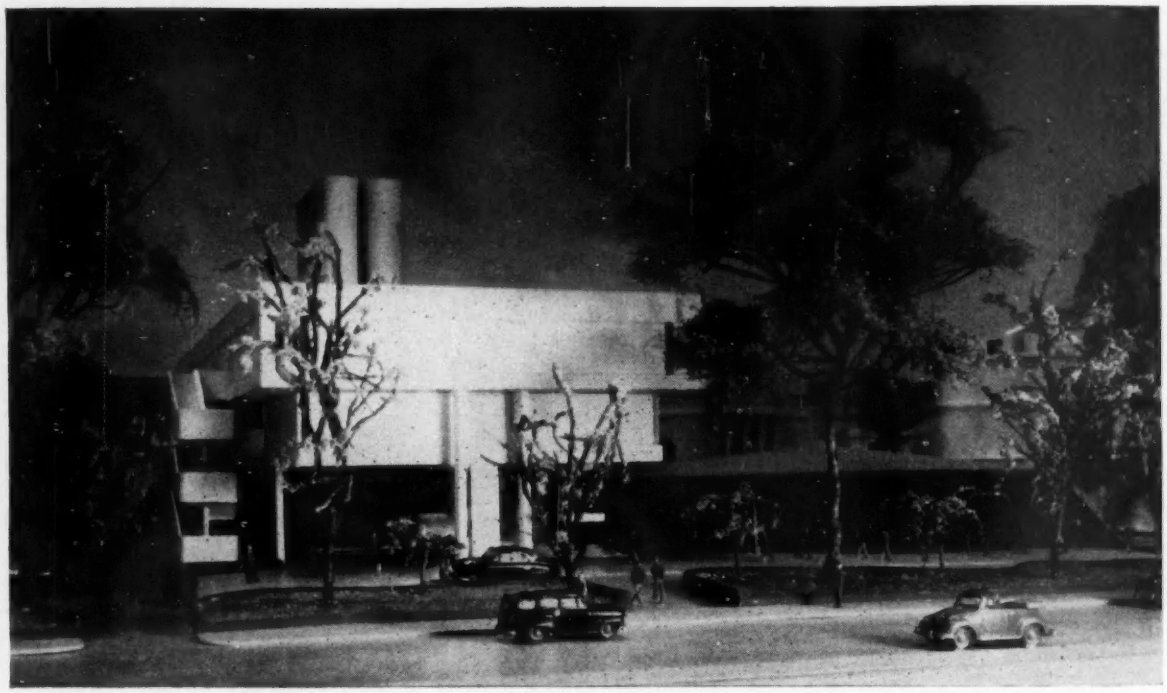
Factory frontage, and north light in concrete barrel roof

Gatehouse, and main entrance hall and staircase

Proposed New Headquarters

For The Royal College of Physicians

DENYS LASDUN & PARTNERS, architects



West elevation, and main entrance to the headquarters

THE SITE on which it is proposed to build the new headquarters of the Royal College of Physicians is at present occupied by Someries House, Albany-street, W1. Someries House was designed by Nash, but so many additions have since been made to it that the Gorell Committee did not think it worthy of preservation and recommended that it should be demolished.

Accommodation will be provided for the College library of historical books, lecture halls, committee rooms, assembly rooms, dining rooms, common rooms for the use of Members and Fellows, and offices for secretarial staff.

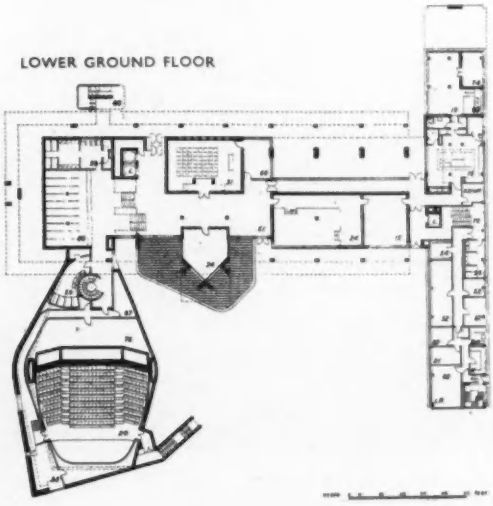
The building will be four storeys high and is planned so that the principal rooms are grouped round a garden on the south side. A Collegiate character has been aimed at. The Albany-street elevation is conceived as 'street architecture,' great care has been taken to enhance the vista along St. Andrew's-place and to preserve its present atmosphere of a pleasant backwater. Care has also been taken to provide a sensitive junction with the fine Nash houses at the end of St. Andrew's-place and to maintain the scale of the adjoining buildings.

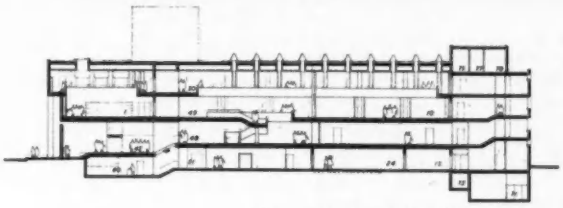
The structure will be of reinforced concrete with upper floors and columns faced in ivory-coloured vitreous mosaic. The lower floors, main lecture hall and the rear part of the building along Albany-street will be faced with dark blue Baggeridge facing bricks. The colours of the facing materials have been chosen to identify and harmonise the building with the cream-painted stucco and slate roofs of the Nash terraces.

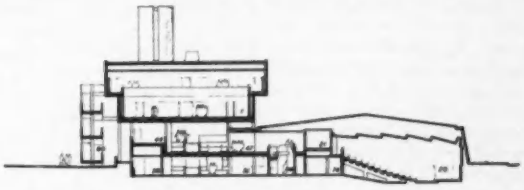
The Censor's room is to be lined with the original Spanish Oak panelling which was part of the building in Warwick-lane, designed for the College by Wren, and subsequently moved to the present College building, opened in 1825. The room is, in fact, symbolic of the long history of the College and has, therefore, been placed at the heart of the new building.

Running south from the entrance foyer towards St. Andrew's-place is the main Lecture Hall, which will hold 300 people. The Hall will have a stepped floor to give a clear view of the lecturer's demonstration table from all seats.

Key to Lower Ground Floor: 15 *Secretaries' Dining Room*, 16 *Kitchen*, 19 *Kitchen Yard*, 20 *Main Lecture Theatre*, 23 *Lecture Theatre—Preparation Room*, 24 *Common Room for Fellows and Members*, 31 *Small Lecture Theatre*, 34 *Quiet Room*, 51 *Lower Hall*, 52 *Porters' Rooms*, 54 *Locker space for Male Staff*, 56 *Lavatory for Male Staff*, 58 *Lavatory for Male Fellows*, 59 *Lavatory for Female Fellows*, 69 *Cloakroom*, 62 *Flat for Head Porter*, 67 *General Storage*, 69 *Storage for Chairs*, 74 *Transformer Chamber*, 76 *Ventilation Plant Room and Extract Chamber—Main Lecture Theatre*, 79 *Staff Staircase*, 80 *Escape Staircase from Library*, 81 *Escape Staircase from President's Flat*, 82 *Escape Staircase from Boiler Room*, L *Lifts*.





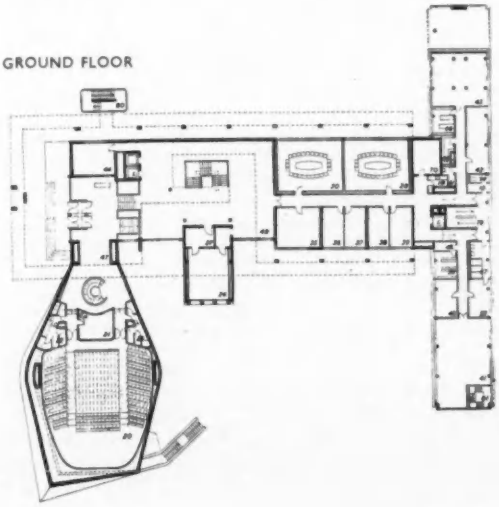


View from St. Andrews-place, and longitudinal and cross sections

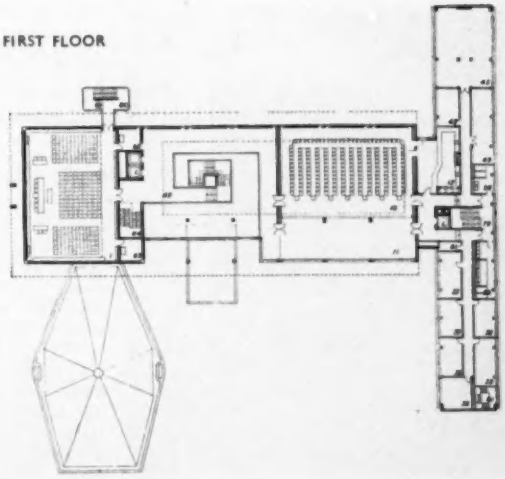
Key to Ground Floor: 13 *changing room for Caterer's staff—female,* 14 *Lavatory for Caterer's staff—female,* 18 *Small Servery,* 20 *Main Lecture Theatre,* 21 *Lecture Theatre—Projection Suite,* 22 *Lecture Theatre—Translation Suite,* 26 *Censor's Room,* 27 *Ante Rooms to Censor's Room,* 28 *Council Room,* 30 *Large Committee Room,* 35 *President's Office* 36 *Registrar's Office* 37 *Treasurer's Office,* 38 *Assistant Registrar's Office,* 39 *Secretary's Office,* 40 *Assistant Secretary's Office,* 41 *Typing Pool,* 42 *Accounts Office,* 43 *Working Room for Post, etc.,* 44 *M.R.C.P. Office,* 46 *Telephonist,* 47 *Entrance Hall,* 48 *Main Staircase, Hall and Waiting Space* 53 *Staff Rest Room,* 55 *Locker space for Female Staff,* 57 *Lavatory for Female Staff,* 61 *Cleaners' cupboard,* 66 *Storage for Filing,* 70 *Strong Room,* 79 *Staff Staircase,* 80 *Escape Staircase from Library,* 81 *Escape Staircase from President's Flat,* L *Lifts.*

Key to first floor: 1 *Library—Main Floor,* 10 *Dining Room—Main Floor,* 11 *Long Room,* 12 *Dining Room Servery,* 32 *Three Small Rooms,* 33 *Three Professors' Rooms,* 45 *Additional Office space,* 49 *Staircase, Hall and Picture Gallery,* 58 *Lavatory for Male Fellows,* 59 *Lavatory for Female Fellows,* 61 *Cleaners' cupboard,* 69 *Storage for chairs and tables,* 79 *Staff Staircase,* 80 *Escape Staircase from Library,* 81 *Escape Staircase from President's Flat,* 84 *Main Staircase to Second Floor,* L *Lifts.*

GROUND FLOOR



FIRST FLOOR



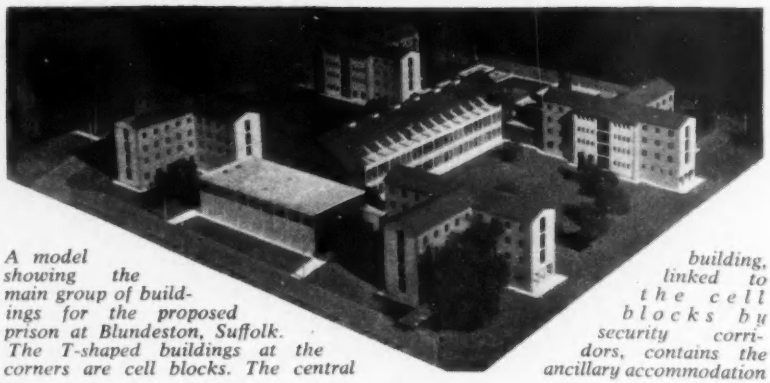
Penal Establishments in England and Wales

A Fresh Approach to Prison Architecture

MOST of the closed prison population in this country is currently and inadequately housed in Victorian buildings designed primarily for solitary confinement. At the turn of the century this concept of the function of imprisonment was abandoned and it became necessary to provide workshops, classrooms, gymnasia, libraries, visiting rooms, hospital accommodation, and other amenities to meet the requirements of a more tolerant and humane society. This change of policy necessitated the construction of new buildings within existing prison compounds, drastic alterations to older buildings, and various other makeshift arrangements. After fifty years this has resulted in grossly overcrowded conditions, totally unsuitable for constructive penal treatment. Mr. R. A. Butler, the Home Secretary, who sketched the future picture of Britain's prisons in London on June 21, said: 'I am determined to end the horrifying practice under which 6,000 men are now sleeping three in a cell.'

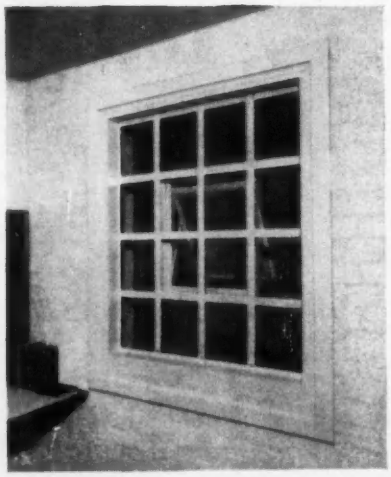
The programme announced in the White Paper on 'Penal Practice in a Changing Society,' published in February last year, is now well under way and some 29 penal establishments are in various stages of development. This programme includes secure prisons, borstals, remand and observation centres, open prisons and detention centres. The estimated cost of these establishments, which represent only part of the ultimate programme, is in the region of £12m. The sum provided in the present financial year is £4m. A programme for the improvement of old prison buildings is being considered, but this, said Mr. Butler, would not be dealt with until the crime wave declined. He thought that Dartmoor would be the first on the list for reconstruction.

Compact planning and the economic use of material will enable the provision of maximum prison space from available funds and Mr. Butler seems confident that the extra accommodation now being provided will soon overcome overcrowding and keep adequate pace with the present unrivalled crime wave. The development group set up by the government to undertake the prison building programme comprises representatives of the Prison Commission, chairman Sir Lionel Fox, the Ministry of Works and the Treasury. The problem which confronted them was almost without precedent since, with the exception of Everthorpe, completed in 1958, no major penal establishment had been built in England and Wales for nearly fifty years. They have produced a design which aside from being economical in cost is convenient for prison staff and provides conditions necessary for present-day penal methods.



A model showing the main group of buildings for the proposed prison at Blundeston, Suffolk. The T-shaped buildings at the corners are cell blocks. The central building, linked to the cell blocks by security corridors, contains the ancillary accommodation

The new type cell window



Blundeston, a Prototype

For the planning of new prisons it was considered that the whole of the accommodation used regularly by prisoners should be arranged for free movement in conditions of security and adequate supervision. Amenity units such as dining rooms, classrooms and gymnasia, are therefore contained within a central block or main group with secure access from connecting cell blocks.

Buildings not connected with the main group are the hospital, the workshops and the administration block (which also includes the reception and visiting rooms).

The main group will therefore provide for all the activities which are carried on in a modern training prison outside the hours of work in the workshops, and their compact design will result in considerable economies in construction. It will have the effect of creating on a site which is comparatively small, large open areas within a restricted perimeter, resulting in a general impression of spaciousness.

The administration block will form part of the surrounding wall of the prison and has been designed so that it is not necessary for visitors to pass through the large prison gate provided for vehicles. By placing this block at the front of the prison the depressing effect of the blank prison wall and gate is avoided; the visiting rooms will be in a secure section of the administration block so that visitors will not need to enter the main prison.

The new prisons will not be surrounded by a high wall. The security imposed by the main group of buildings will be much greater than that of existing prisons, and a high wall is not necessary for security during the day time, when prisoners are under supervision. There will be a concrete wall 8 ft. high to provide privacy, and within this wall there will be a 12 ft. chain link fence surmounted by barbed wire to provide a barrier against sudden attempts at escape.

The cell is no longer a place in which the prisoner will eat his meals and do his work; nor will he be locked in for long periods during the day. As a result of the better use of floor space and improvements in the design of furniture the new cell, though smaller in size, will give the prisoner more space in which to move. A new and larger type of window will be used in which the security bars are incorporated in the frame of the window itself, thus making it possible to dispense with external bars. The security bars will be made of manganese steel, and the design of the window as a single unit will provide greater security than hitherto. The wall and floor fittings make use of modern materials which are economical in maintenance but give a better appearance. The cell is designed for occupation by one prisoner only.

As the cells in the new prisons will be used only as sleeping accommodation it is no longer necessary that they should be arranged in long wings, sometimes four or five storeys high, to be observed from the centre. The standard type of cell block will therefore consist of four storeys, of which the upper three provide accommodation for 76 men with a sanitary annexe on each floor. The ground floor is entirely devoted to association rooms, offices for the staff and a sanitary annexe, including baths and showers. Most of the accommodation is cellular, but provision is made for one dormitory in each block with its own sanitary recess.

At Blundeston it is proposed to experiment with the use of closed circuit television as an aid in controlling the movement of prisoners.

All internal finishes have been designed with a view to the hard wear they will receive and to reducing maintenance to a minimum. Plaster has been confined to the administration block, hospital and classrooms; elsewhere the finish will be fair face brick, either left in a natural colour or treated with a plastic paint. Externally, a wide variety of facing bricks of contrasting or harmonious colour and texture will be used with limited areas of aggregate slabbing and rendering. The general object is to produce a group of buildings which, while fully secure, do not have the depressing appearance of the traditional prison. Next to the security compound there will be 77 staff houses and a hostel for bachelor officers.

The estimated cost of all the buildings contained within the perimeter of Blundeston Prison, including the administrative building, is about £½m. This represents a saving of about £40,000 on the cost of Everthorpe Prison, despite the fact that the design of Blundeston includes additional association rooms and also incorporates chapels and dining rooms. The final saving is estimated at 15 per cent.

New Establishments

The following penal establishments are proposed in the current development plans: *Secure prisons:* Hindley, Lancashire (to be completed by the end of 1961). Grendon, Buckinghamshire (early 1962). Blundeston, Suffolk (end of 1962). Stoke Heath, Shropshire (early 1963). Market Harborough, Leicestershire (planning observations). *Secure borstals:* Ashford, Kent (early 1961). Swinfen, Staffordshire (early 1962). Wellingborough, Northamptonshire (compulsory purchase order pending). Barby (planning observation order sought). *Remand and observation centres:* Risley, Lancashire (early 1963). Low Newton, County Durham (1963). *Open prisons:* Kirkham, Lancashire (end of 1961). Appleton Thorn, Cheshire (mid-1961). *Open borstals:* Finnamore Wood Camp, Buckinghamshire (mid-1961). Shaftesbury Hospital, Dorset (early 1962). *Women's establishments:* Bulwood, Essex (early 1962). Styal, Cheshire (end of 1961). Thornwood, Essex (public inquiry pending). Moor Court, Staffordshire (mid-1962). *Detention centres:* New Hall Camp, Yorkshire (this year). Medomsley, County Durham (this year). Aylesbury, Buckinghamshire (this year). Kirklevington Grange, Yorkshire (compulsory purchase order pending). Erlestoke House, Wiltshire (early 1962). Aldington Camp, Kent (end of 1961). Haslar Barracks, Hampshire (early 1962). East Clandon, Surrey (awaiting result of public inquiry).

Acknowledgments

This work is being undertaken by the chief architect's department of the Ministry of Works; Mr. R. Turner, FRIBA, assistant chief architect is responsible for the general programme. Mr. A. C. Hopkinson, MA, FRIBA, AMTPI, has designed the proposed closed prison at Blundeston.

Architects' and Surveyors' Earnings

Supplement to Royal Commission's Report

A SUPPLEMENT to the report of the Royal Commission on Doctors' and Dentists' Remuneration was published on June 21 as a White Paper and it set out the statistical comparisons with earnings of other professions—accountants, actuaries, barristers, solicitors, architects, surveyors, engineers and university teachers.

An introductory note explained that the purpose of this appendix was to set out those statistics obtained in the course of the survey which were considered by the royal commission to be of less direct connection with their task but still of great interest in a study of remuneration and conditions of service in the major professions. It was strongly emphasied that a full study of the material published in the main report of the commission was a necessary preliminary to the correct interpretation of the statistics set out. The tables in the appendix, with the exception of that relating to graduates in industry, had all been produced from the results of the royal commission's postal questionnaire inquiry to individuals.

Basis of Statistics

All the figures of income in the tables (except those for assistant general medical practitioners) were those of earned income, whether Schedule D or Schedule E or both, as agreed with the Commissioners of Inland Revenue for income tax purposes for the fiscal year 1955-56.

Of the 1,759 architects furnishing income in 1955-56, 60 were women. Following are the tables in the White Paper:

DISTRIBUTION OF ARCHITECTS BY AGE AND INCOME

Income £	Age											All ages
	20–24	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65–69	70–	
Loss												
399–200				1								1
199–0 ...				1								1
Income												
0–199					2					1	1	4
200– ...	1	3	6	3		1	2	1		1	3	21
400– ...	5	25	10	5	8	3	2	1	2	3	3	67
600– ...	1	182	102	41	24	14	9	10	8	3		394
800– ...	1	51	127	84	61	40	20	16	9	4	1	414
1,000– ...		15	52	43	51	42	23	10	6	1		243
1,200– ...		4	11	27	45	31	22	9	5	2	3	159
1,400– ...			4	9	21	18	9	8	4	2		75
1,600– ...		1	1	11	13	23	18	9	2	2		80
1,800– ...		1	1	6	10	19	3	7	3	2	1	53
2,000– ...		1	3	4	11	13	7	6	4	2	3	54
2,200– ...			3	3	9	8	5	3	2	2	1	36
2,400– ...				1	5	6	4	1	4	1	1	23
2,600– ...			1	2	2	6		2	2		1	16
2,800– ...				1	1	5	2	3		4	1	17
3,000– ...				1		5	2	1	1	2	1	13
3,200– ...				2	2	3			1			8
2,400– ...				1	1	4	1			2		9
3,600– ...						1				2		3
3,800– ...			1			1	3		1	2		8
4,000– ...			1	1		3		1			1	7
4,200– ...					1	1			1			3
4,400– ...				1	1		1		1			4
4,600– ...					1	1	2	2			1	7
4,800– ...				1								1
5,000– ...			1		1	1						3
5,200– ...					1					1		2
5,400– ...										1		1
5,600– ...							1					1
5,800– ...						1						1
6,000 and over ...				5	6	6	7	1	2	2	1	30
All incomes	8	283	324	254	277	256	143	91	58	42	23	1,759

ARCHITECTS: PROVISION OF CARS FOR PRIVATE USE

	Number
Car provided, architect paying:	
Nothing	25
Less than cost of fuel	18
Cost of fuel	52
More than cost of fuel	41
Arrangement not stated	4
	140
Car not provided and question not answered*	1,619
TOTAL	1,759

* Includes 442 architects practising as principals.

The White Paper also stressed that care should be used in making overall comparisons between one profession and another, as they might differ in age distribution, in the proportion of men and women, in geographical distribution, in the proportion of fee earners and so on.

Surveyors' Earnings

The figures for surveyors, stated the White Paper, differed from those in most other professions in that the sample did not include those employed in any branch of the public service. About half of all chartered surveyors fell into this category. The results of the questionnaire inquiry were therefore not strictly comparable with those available for all other professions.

In order to obtain a means of comparison, the Royal Commission obtained salary figures for all chartered surveyors employed in the Civil Services and by the LCC in 1955-56. The effect of adjusting the figures obtained in the questionnaire inquiry to take account of salaries in the public service was set out in the main report. No adjustment had been made in the following tables.

Of the 1,439 surveyors furnishing income in 1955-56, six were women. The tables are:

DISTRIBUTION OF SURVEYORS BY AGE AND INCOME

Income £	Age											All ages
	-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-	
Loss												
799-600											1	1
599-400							1					1
399-200										1		1
199-0 ...						1	1					2
Income												
0-199				3	1		2			1		7
200- ...	1	3	3	1				1	1		1	11
400- ...	5	34	12	6	1	1	1	3	2	4	5	74
600- ...	4	88	48	16	9	6	4	4	6	7	5	197
800- ...	3	92	76	40	19	16	8	8	8	5	1	276
1,000- ...	1	29	52	37	24	14	3	6	6	7	4	183
1,200- ...		9	19	27	18	14	8	6	5	3	4	113
1,400- ...		6	8	14	17	11	10	6	2	1	5	80
1,600- ...		3	7	13	21	14	4	4	5		1	72
1,800- ...		1	5	14	14	9	3	3	2	3	3	57
2,000- ...		2	8	8	18	8	2	3	2	4	1	56
2,200- ...		3	1	2	7	6	4	2	3	1	3	32
2,400- ...	1	1	3	3	7	4	4	1	1	4	1	30
2,600- ...		2	1	5	5	7	3	2	2	5		32
2,800- ...			2	1	5	3	3	1	4		2	21
3,000- ...			2	3	7	5	1	3	1	4	1	27
3,200- ...			1	1	4	2	2			2	2	14
3,400- ...				2	3	4	1	1	3			14
3,600- ...		1	1		2	1	3	4	2			14
3,800- ...				2	4	3	2	2	2			15
4,000- ...				1	2		2	1	1			7
4,200- ...				2	2	2	1	2			1	10
4,400- ...				1		1	1		1			4
4,600- ...				1	1	1	1	2	1	1		8
4,800- ...				1	3	1						5
5,000- ...				1		2	1	1			1	6
5,200- ...		1		1	1		1					4
5,400- ...				1	3	1	1		1			7
5,600- ...				2	1	1	1					5
5,800- ...							2	1				3
6,000 and over ...			1	1	8	17	10	10	2		1	50
All incomes	15	275	250	210	207	155	91	77	63	53	43	1,439

SURVEYORS: PROVISION OF CARS FOR PRIVATE USE

	Quantity Surveyors	Others	All
Car provided, surveyor paying:			
Nothing ...	12	33	45
Less than cost of fuel ...	12	34	46
Cost of fuel ...	31	92	123
More than cost of fuel ...	20	46	66
	75	205	280
Car not provided ...	209	354	563
Not answered* ...	237	359	596
TOTAL ...	521	918	1,439

* 630 surveyors were in practice as principals.

Obituary

T. Alwyn Lloyd, OBE, JP, FRIBA

MR. THOMAS ALWYN LLOYD, whose death on holiday at Torquay on June 19 was reported in our last issue, was a founder member of the Town Planning Institute (of which he was President in 1933) and a town-planner and architect of international reputation. Born in 1881, he was educated at Liverpool College and Liverpool University and was assistant to Unwin at Hampstead Garden Suburb from 1907-12. Thereafter his professional life was divided between the arts of architecture and planning. He was consulting architect to the Welsh Town Planning and Housing Trust for whom he designed many villages, besides much municipal housing, school and commercial building, latterly in partnership with Mr. Alex Gordon, ARIBA, who carries on the practice.

As a town planner, he was joint author of the South Wales Outline Plan, 1947, and among many other committees he sat on that set up by Lord Reith in 1941-2 for reconstruction. He did magnificent work for the preservation of rural Wales, of whose council he was chairman, and he was President of the South Wales Institute of Architects in 1929-31. He was active also in the field of archaeology. 'Planning in Town and Country' (1935) was among his publications. Mr. Lloyd, who was made OBE in 1958, was HonLLD (Wales), a Justice of the Peace, and held the Distinction in Town Planning of the RIBA.

Gilbert Ledward, OBE, RA

WE REGRET to announce the death, which occurred on June 21, of Mr. Gilbert Ledward, OBE, RA, the architectural sculptor. He was 72.

Probably the best known of his works in London is on the Guards' Memorial near the Horse Guards Parade, for which he designed and executed the bronze figures and relief panels, the architectural part being the work of the late H. C. Bradshaw, FRIBA. One of the last commissions he executed was a frieze depicting the peoples of Africa above the entrance of the new Barclays Bank DCO offices in Old Broad-street, London.

Mr. Ledward's training was orthodox. After studying at the Royal College of Art and the Royal Academy Schools he won, at the age of twenty-five, the double distinction of the Rome Scholarship in Sculpture of the British School at Rome, the first to be awarded, and the gold medal and travelling scholarship of the Royal Academy, and proceeded to Rome, where a close study of Italian art formed his style.

For some years he was Professor of Sculpture at the Royal College of Art. In 1956-57 he was a trustee of the Royal Academy and from 1954 to 1956 he was president of the Royal Society of British Sculptors. In 1956 he was appointed OBE.

Albert Henry Jones, FRIBA

THE DEATH occurred on June 18 of Mr. Albert Henry Jones, FRIBA, of 15 West Hill, Sanderstead, Surrey. Mr. Jones retired from practice in 1956.

Letters to the Editor

New Deal for Conference Wanted; Half-Timber as Modern Technique

New Deal for Conference Wanted

SIR,—Since returning from the British Architects' Conference in Manchester, I have been trying to arrive at a personal assessment of the value of this meeting. I think the first point is that this Conference was heralded by more publicity than ever before and its subject, that of urban renewal, was perhaps more important than that of the Oxford Conference and certainly of more universal interest. The RIBA had, in fact, done everything in its power to obtain the maximum publicity beforehand and maximum coverage of the Conference by the Press. The papers were circulated well beforehand and promised to provide first-rate starting-off points for discussion.

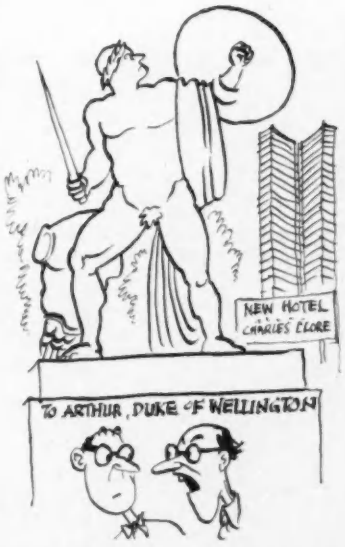
I was under the impression that the Conference was divided into two parts with the intention that the first day we would discuss the papers and formulate certain positive lines which would be put forthrightly to the Parliamentary Secretary and the other visiting speakers on the second day. The first session of the Conference was largely wasted, first by the preambles and second by the speakers taking far too long in introducing the papers. The session was from 9.30 a.m. to 12.15 p.m.—2¾ hours. Of this, half an hour was taken up by the Lord Mayor's address, by the President's inaugural address and the presentation of a bronze medal. The three speakers who were asked to introduce their papers and incidentally to talk for 45 minutes, in the end spoke for 110. Of the 2¾ hours, 25 minutes only were left for discussion, and very few people took part in this. In any case it is very difficult to get down to discussion in a large conference hall because everybody feels obliged to make a speech and therefore to throw in all the attendant formalities of the amateur public speaker.

Apart from the fact that we must have more time for discussion, I feel that it would be more valuable if a conference of this type could break up into smaller study groups and discussion groups which could report back to the conference either in writing or by speakers. Not enough use is made of the written word at conferences and I feel it should be possible to encourage members to write down their ideas so that anyone who had anything worthwhile to contribute would, in fact, be able to do so, while at the same time much that was irrelevant could be filtered out. There was a short study group between 1.45 p.m. and 2.15 p.m. after the main meeting which was intended to crystallise ideas for the next day. This was terribly badly attended because anyone wishing to go on to the Garden Party had to catch a bus at 2.30 p.m. and even architects like to wash behind the ears before attending such a wholesome diversion.

At the second session we had a long and, I thought, pretty evasive speech by Sir Keith Joseph. It was a pity the Conference did not have a written verbatim of his speech beforehand for if this had been the case I am sure there would have been more criticism of what seemed to me a fairly 'laissez-faire' line on a situation which is getting quite desperate.

The panel of speakers which followed and who answered questions prepared by the previous day's study group did their best, but the way in which this part was arranged forced it to degenerate into a sort of 'Any Questions' with Mr. Basil Spence playing the part of Freddy Grisewood. The profession was put in the position of asking questions of these visiting specialists whereas I think that this Conference was the time for us to be telling them, and in particular Sir Keith, what we think the planning policy should be. As with the previous day, there was little more than half an hour or so for general discussion, and the whole proceedings were pretty inconclusive and, I think, irritated many of the members judging from the conversations I had in the interval.

I believe it is time that the British Architects' Conference had an entirely new facelift. I do not think it will be just good enough to allow more time for the serious side of the Conference and to leave things very much in the same form. I have in mind something on the lines of the CIAM Conferences, where policy discussions derived from definite projects and ideas presented by the teams of architects taking part. On a subject as important as urban renewal, a very strong case could be made for the RIBA sponsoring projects by teams of architects either as homework or paid work—preferably paid, as architects do too much work for nothing these days. With definite visual material in front of them demonstrating ideas, people have fewer problems of definition, and are less likely to get lost or to hide in generalities. Everybody would be talking about the same thing. My group has contributed to CIAM Conferences although I have never, in fact, attended one, but I am well aware of the kind of sense of urgency and enthusiasm that they evoked. People used to sit up half the night typing out their thoughts for the next day rather than propping up the bar in the local hotel which tends to happen at an RIBA affair. What I am suggesting means a Conference where people would work or discuss the results of programmed architectural research, and this could be used for the presentation of new ideas, or as a background against which to discuss political or administrative policy considerations. The Conference would cease to be a mid-week expense-paid holiday for the Borough Architects which is, I am afraid, largely what it is at the moment.



'Know of a town-planning Wellington to deal with a Napoleon of free enterprise?'

There should be a social side to the Conference. What amazed me at Manchester was that the social events were as unsuccessful as the Conference itself. Surely one ought to be able to run a Ball or a Garden Party and make it go! One of the problems here is that there is a usually a preponderance of men at the Conference Ball and architects' wives had to be registered as members of the Conference, making it quite an expensive business to attend the Ball on its own. Consequently, the dance floor was very bare and the bar was well propped up. The answer here is to let tickets for the Ball be bought separately so that wives, etc., can come in for the one occasion, particularly if the Conference is held near a large centre of population like London.

The RIBA Conference Committee should set up a study group to reconsider the organisation of the Conference itself and to ensure that the social events are first-rate occasions.

JOHN PARTRIDGE [ARIBA],
Chislehurst, Kent.

Half-Timber as a Modern Technique

SIR,—It seems to me that useful publicity of a general nature for Commonwealth consumption could be made from the British 1,000-year-old tradition in timber building. It would be good to get away from the black and white oldey worldey piggey wiggey porkkey shoppey approach and demonstrate that half-timber actually means something in scientific structure and economy in labour and material. One or two half-timber buildings should be put up just to keep the melody in the air.

This kind of propaganda will mean something to timber-using countries and could serve as a peg or springboard from which building trade exports can be sold.

The idea is already there: why not make sensible use of it? None of the new countries has this timber tradition and all that goes with it, craftsmanship, apprentice training, etc.

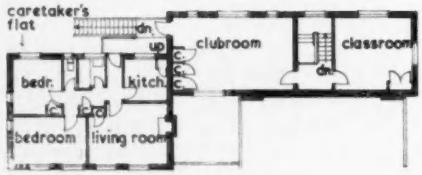
C. R. VINYCOMB,
Box 8010, Wellington, New Zealand.

Union Congregational Church, SE1

ASHBY & WEARING, DIP.ARCH, ARIBA, architects

FREDERICK J. BRAND, MISTRUCT.E, AMIW, structural engineer

Sanctuary, towards the baptistry and rostrum



GROUND & FIRST FLOOR
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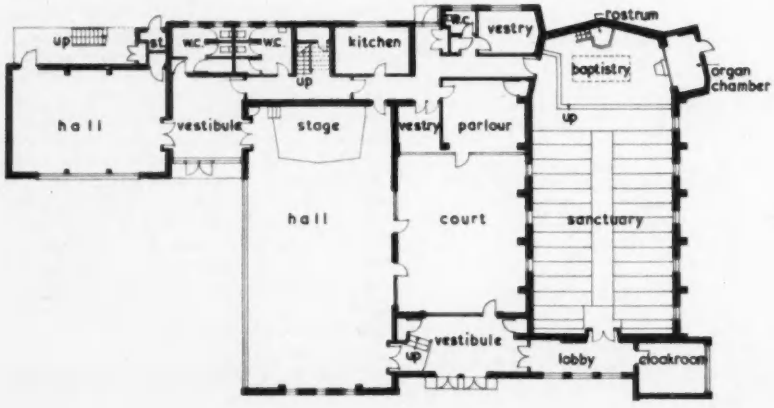


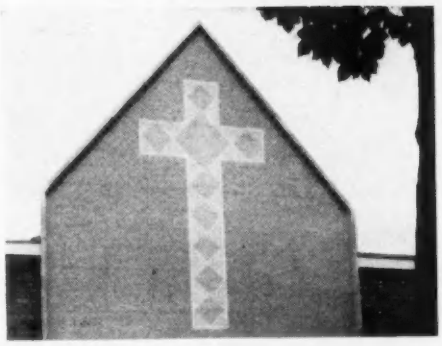
THE CHURCH BUILDINGS replace those in Queen Elizabeth-street which were destroyed by enemy action in October, 1940. The accommodation includes a sanctuary seating 240, large hall, small hall with a caretaker's flat over, kitchen, cloakrooms, vestries and parlour with a club and classroom at first floor level.

The buildings have been planned around a paved and planted inner courtyard which provides quiet privacy for all parts, a pleasant outlook away from the bustle of the surrounding streets, and has the effect of unifying the various elements of the plan. The courtyard is visible from the street through the fully glazed entrance doors. This plan formation was adopted to shield the interior from the noise of the main street. Similarly the front gable wall of the sanctuary is unperforated.

Access between all parts is kept within the building itself. The front vestibule and the vestry block form connecting links between sanctuary and halls.

REDDICK & MACDONALD, quantity surveyors

YEOMANS & PARTNERS LTD., general contractors



Top, general view of the chapel buildings from Tooley Street. Left, the gable wall of the sanctuary was left solid to prevent the admission of street noise, and finished with mosaic facings. Below, the large hall which opens onto an internal court

The superstructure is generally solid or cavity brickwork with London Stock facings, some of which have been used internally. Cranked steel joists carry the sanctuary roof, and precast concrete portal frames with transverse ties at foundation level are used for the large hall. Floors are solid concrete lightly reinforced. Floor finishes are wood block in the sanctuary and halls, and PVC in kitchen, cloaks, corridor, etc. The first floor of the caretaker's flat and the clubroom, etc., is a floating timber floor on fibre glass. Walls generally have plaster finishes with acoustic plaster in the sanctuary and large hall.

Ceilings are mostly suspended with Bowaters flame resistant insulation board and Armstrong's Travestone acoustic tiles.

Heating to the sanctuary is by infra-red heaters and quick return non-withdrawable electric floor warming. The 2 in. screed surrounding the PVC cable was laid on Jablite insulation. Heating in the large and small hall is by gas radiators, and in the vestries and parlour by fixed electric fires in surrounds designed by the architects. Carving was by Frank Mortimer Ltd. and Joseph Cribb.

Colour has been introduced chiefly on the ceilings, blue with white joists in the main entrance vestibule, dark blue and white in the sanctuary, grey and white on the shaped ceiling and yellow boarded soffit over the windows in the hall.

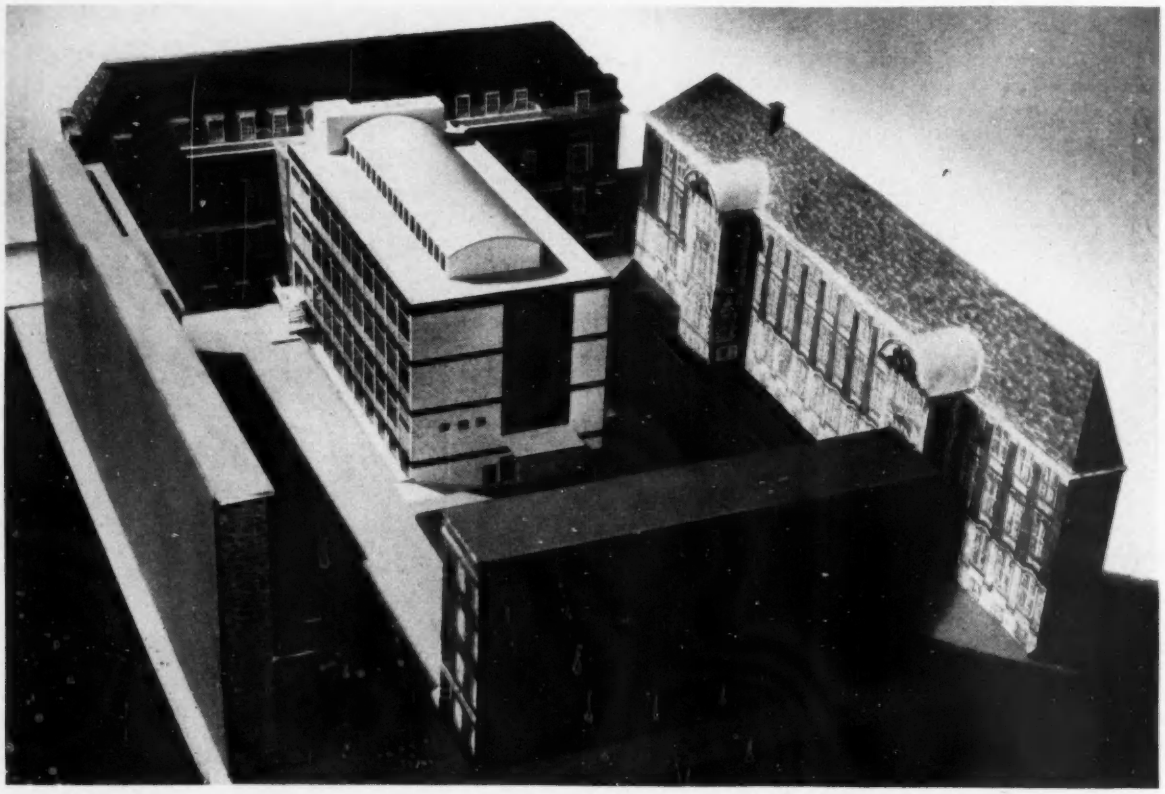
Sub-contractors & Suppliers:

Structural steelwork: Carter-Horseley (Engineers) Ltd.; *precast concrete frames:* Precast Utilities (London) Ltd.; *wall tiling, marble flooring and mosaic:* Carter & Co. (London) Ltd.; *facing bricks:* Cement Marketing Company Ltd.; *metal windows:* A. Beanes & Co. Ltd.; *precast floors:* Concrete Ltd.; *gas installation:* S.E. Gas Board; *electrical installation:* L.E.B.; *sanitary fittings:* John Bolding & Sons Ltd.; *electrical floor heating:* Heating Investments Ltd.; *balustrade:* H. & C. Davis & Co. Ltd.; *flat roofs:* Permanite Ltd.; *roof tiling:* John Williams & Co. (London) Ltd.; *pews, sanctuary and joinery:* Ebdon's; *glass domes:* T. & W. Ide; *teak wood block floor:* Stevens & Adams Ltd.; *plastic flooring:* Frys Floors Ltd.; *flexwood panelling:* Alexandria Trading Corporation; *window control gear:* Teleflex Products Ltd.; *suspended ceilings:* Richardson Roofing Co. Ltd.; *paint:* Vitretex (England) Ltd., and International Paints Ltd.; *fencing:* East Sussex Engineering Co. Ltd.; *ironmongery:* F. Knight & Co. Ltd.; *furniture and carpets:* Harrods Ltd.; *emergency lights:* Price Candles (Distribution) Ltd.; *electric light fittings:* G.E.C., A.E.I., Merchant Adventurers Ltd.; *external lettering:* Ward & Co.; *paving slabs:* Mono Concrete Ltd.; *infra red heaters:* Thermodare (Great Britain) Ltd.; *gas heaters:* Drugasar and Vectair; *organ:* Manders Ltd.

Extension to Biochemistry Department

For the University of Cambridge

HAMMETT & NORTON, architects



The new wing forms a T junction with the existing biochemistry department designed by Sir Edwin Cooper. The agriculture building on the right was designed by Sir Thomas Jackson. Foreground, agriculture building designed by Lanchester & Lodge. Left, anatomy building, Easton & Robertson

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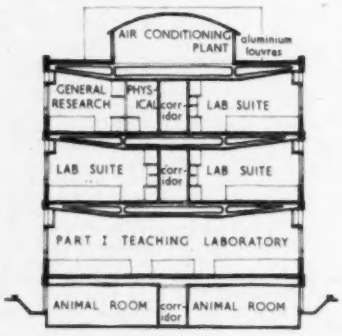

THE PROPOSALS for an extension to the biochemistry department consist of a 4-storey block 100 ft. long by 50 ft. wide. Owing to the limited area of land available to the university for expansion, the new wing has been sited along the centre of a quadrangle court forming a T junction with the existing biochemistry department. It is consequently surrounded on all four sides by buildings which vary in architectural style.

Each floor of the new wing has been planned to be complementary to that in the existing building, and the floor levels are made to correspond. This enables the lift, which is primarily for goods, to serve all floors and permits the wheeling of stores between the old and new wings. To achieve this, the Part I teaching laboratory has been placed on the ground floor which has the greatest ceiling height.

The size of the large Part I teaching laboratory and the overall need for flexibility on the research floors, necessitated on these floors a clear span of 48 ft. This is obtained by placing precast concrete 'T' space frames at 4 ft. 6 in. centres. The frames are 2 ft. 9 in. deep over the centre section tapering to 1 ft. 3 in. at both ends. These are carried on edge beams between r.c. columns at 9 ft. centres. The floor will consist of reinforced slabs spanning between the space frames, with removable covers for access to the services which will be run within the depth of the space frames.

The design of the elevations has resulted directly from the plan and structure coupled with the necessity of obtaining the best possible daylight factors within the building whilst providing surfaces which would reflect the maximum light into the surrounding buildings. The columns, beams, and concrete cladding panels will be finished with white mineralite and various granite facings.

LCC Architectural Training Scheme

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The earlier scheme was limited to applicants already in the service of the LCC, and this limitation resulted in an unsatisfactory general standard, although, as Mr. Bennett stated in a recent letter ('The Builder' of June 10), a number of very good architects were produced. The new scheme, which comes into operation for the 1960-61 session, has been modified to include any member of the general public who has the necessary qualifications.

Both sexes are eligible and applicants should be below the age of 25 years on October 1 and must already have a General Certificate of Education in five subjects with at least two at advanced level. A third and most important requirement is ability in draughtsmanship. Selected candidates will be employed in the council's service throughout the period of training, which in this case will be seven years, and will attend an approved course of study at the Polytechnic, Regent-street, leading to the diploma in architecture of that school. On completion of the recognised period in practice and an examination in professional practice conducted by the school, the student will finally attain associate membership of the RIBA.

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The trainees will attend evening classes for three days each week and in addition will be given one full day each week for study and for the preparation of studio work required as testimonies of study. Provided the trainee completes his training and provided he completes two years' service with the council after professional qualification, the council will bear the full cost. A signed undertaking to this effect will be required of each selected applicant.

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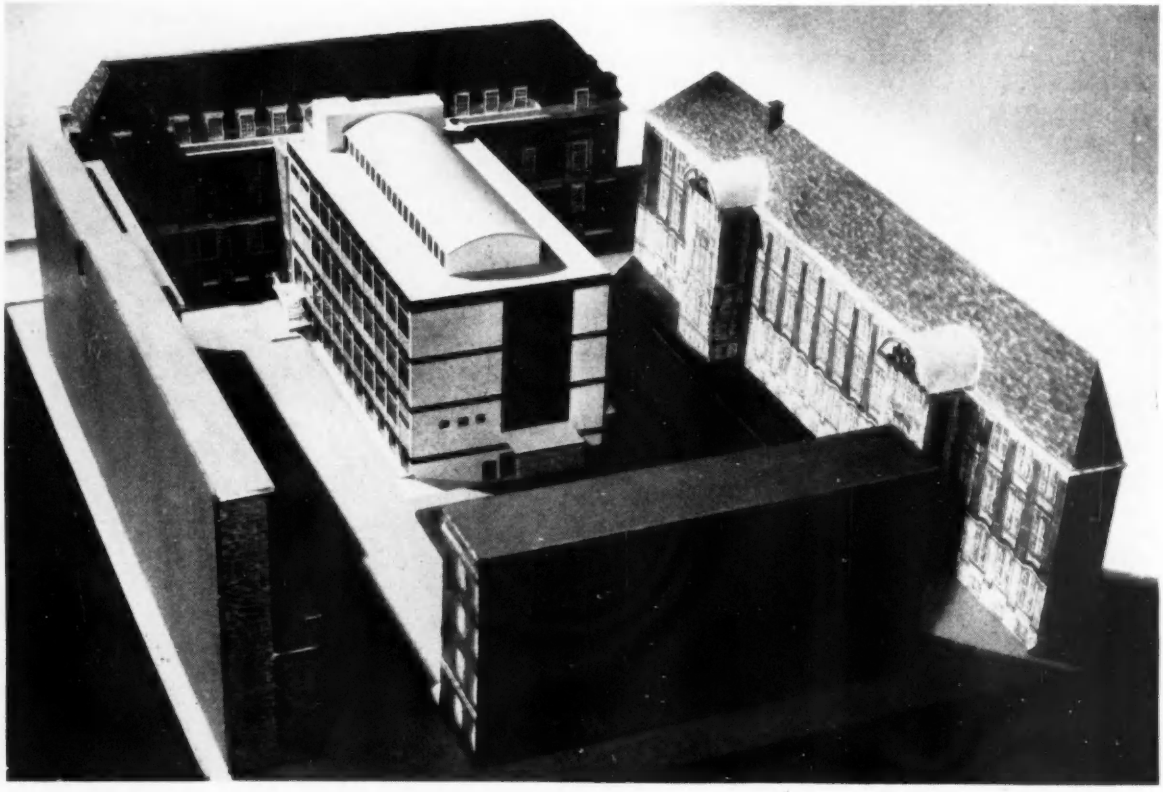

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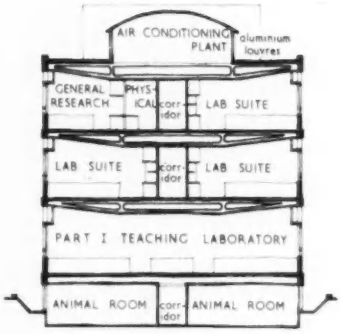

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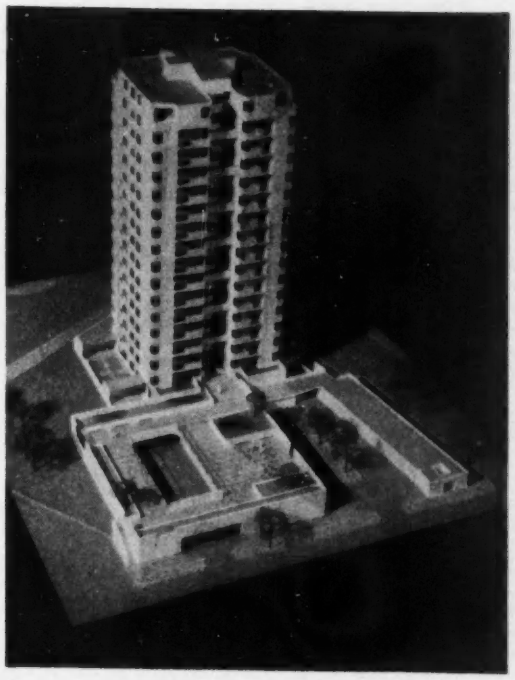

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RCA at the Milan Triennale

IN VIEW of the world interest in industrial design in the engineering industries the Milan Triennale has invited four of the leading colleges in the world teaching this subject to take part in this exhibition. One of the colleges so invited is the Royal College of Art, who have been asked to mount an exhibition demonstrating their teaching methods and the results of their teaching. The other schools are: Hochschüle für Gestaltüng, Ulm; Syracuse University, New York; Illinois Institute of Technology, Chicago. The stand is being designed by Professor Misha Black, who was appointed head of the School of Industrial Design (Engineering) last September, assisted by one of the tutors, Mr. Frank Height. The School of Graphic Design have been responsible for the photographs and typography. The Exhibition opens at Milan on July 18.

The Architecture Club

AN EVENING PARTY is to be held by the Architecture Club on July 7 at Burlington House, Piccadilly, W1. In addition to the Summer Exhibition some of the Royal Academy of Arts' private rooms will be open for inspection during the evening. Applications for tickets, price £2 2s. inclusive, should be addressed to the Secretary, the Architecture Club, 26 Store-street, London, WC1.

Leverhulme Travel Grants

FIFTY-FOUR applications were received by the RIBA for the Leverhulme travel grants to Brazil. Awards of £1,200 each, including travelling expenses, have now been made to Mr. D. P. Crease, MA, ARIBA, and Mr. G. H. Balcombe, ARIBA. The grants will enable them to work for a period of at least one year on the planning or building of the new federal capital, Brasilia.

Selective List of Architects

THE SELECTIVE LIST OF PRACTISING ARCHITECTS for 1960, now published by the British Data Service, includes, as in previous editions, a geographical list in county-town order and an alphabetical list giving the architect's name, his partners in practice and the area in which he is located. This enables useful cross reference from one section to another. A simple classification code is used to signify the types of work recently undertaken by each architect and the general trend of his practice. This list contains a total of 3,430 names and addresses of which some 860 are in the London area. The number of individual architects represented is approximately 5,250.

Clarendon Laboratory Extension

THE MULLARD COMPANY has given £25,000 toward the cost, estimated at between £50,000 and £60,000, of an extension to the Simon building, Clarendon Laboratory, Oxford. The university hopes to begin work on the extension early in 1961. It will consist of a high-magnetic field laboratory on the first and second floors, and a low-temperature workshop on the ground floor.

It is understood that the DSIR has approved a grant of £25,000 for the scientific equipment of the building, and that the trustees of the Higher Studies Fund are making a grant of £10,000 toward the cost of the building. The architect of the extension will be Mr. P. H. Bosanquet, AADipl, ARIBA.

Proposed University for Essex

IT IS EXPECTED that the University Grants Committee will indicate soon whether they are prepared to allow the proposal for a University of Essex to go forward. Financial support already promised includes an Essex County Council grant of £107,000 a year towards the cost of maintenance, and a guaranteed £93,000 from industry towards the capital cost of construction. An option to purchase the proposed site of 440 acres at Hylands Park, Chelmsford, has been granted and the county council have agreed to bear the cost. An ultimate student population of 2,500 to 3,000 is envisaged.

Bognor Rebuilding Scheme

A BIRMINGHAM development company and a Birmingham architect have put in a £10m. rebuilding plan for a large section of the sea front at Bognor Regis. The plan is one of five schemes submitted.

The Birmingham developers are Messrs. Page-Johnson, of Walsall-road, Great Barr, and the architect is Mr. James A. Roberts, ARIBA.

The new plan, believed to be the first of its kind in this country, is for complete reconstruction of one-third-of-a-mile of Bognor's front near the pier. It would involve the building of five eight-storey 'tower' blocks of flats and a 12-storey hotel, a dance hall and restaurants, a multi-storey car park, new civic buildings, including a civic hall and a cinema. These would all be linked by pedestrian shopping ways on the sea front and an elevated car-way and service road at the rear.

A new idea is for all the shops at ground floor level to be 'double-fronted' —with frontages facing the sea for summer visitors and facing a central glass-covered arcade for out-of-season shopping.

Founder of NBR

IN A REFERENCE, in our last issue, to Mr. Walter Godfrey's retirement from the directorship of the National Buildings Record, it was stated that Mr. Godfrey had founded the Record. The original suggestion for the establishment of the Record was, in fact, made in August, 1940, by Mr. C. Birdwood Willcocks, FRIBA, the Reading architect, in a letter to Mr. Ansell, then President of the RIBA. We are glad to acknowledge this fact.

Architects' Golf

THE SUMMER week-end of the RIBA Golfing Society will be held at the Royal Cinque Ports Golf Club, Deal, on July 9 and 10. The programme includes the Stapleford competition for the Allens Bowl; a fourball or foursome competition for the Society prize; and a medal round for the Captain's prize (running concurrently with the competition for the President's prize at Sandwich). Members who wish to attend should apply to Mr. S. H. Statham, FRIBA, Devonshire Close, 39, Devonshire-street, W1.

From the Observation Platform

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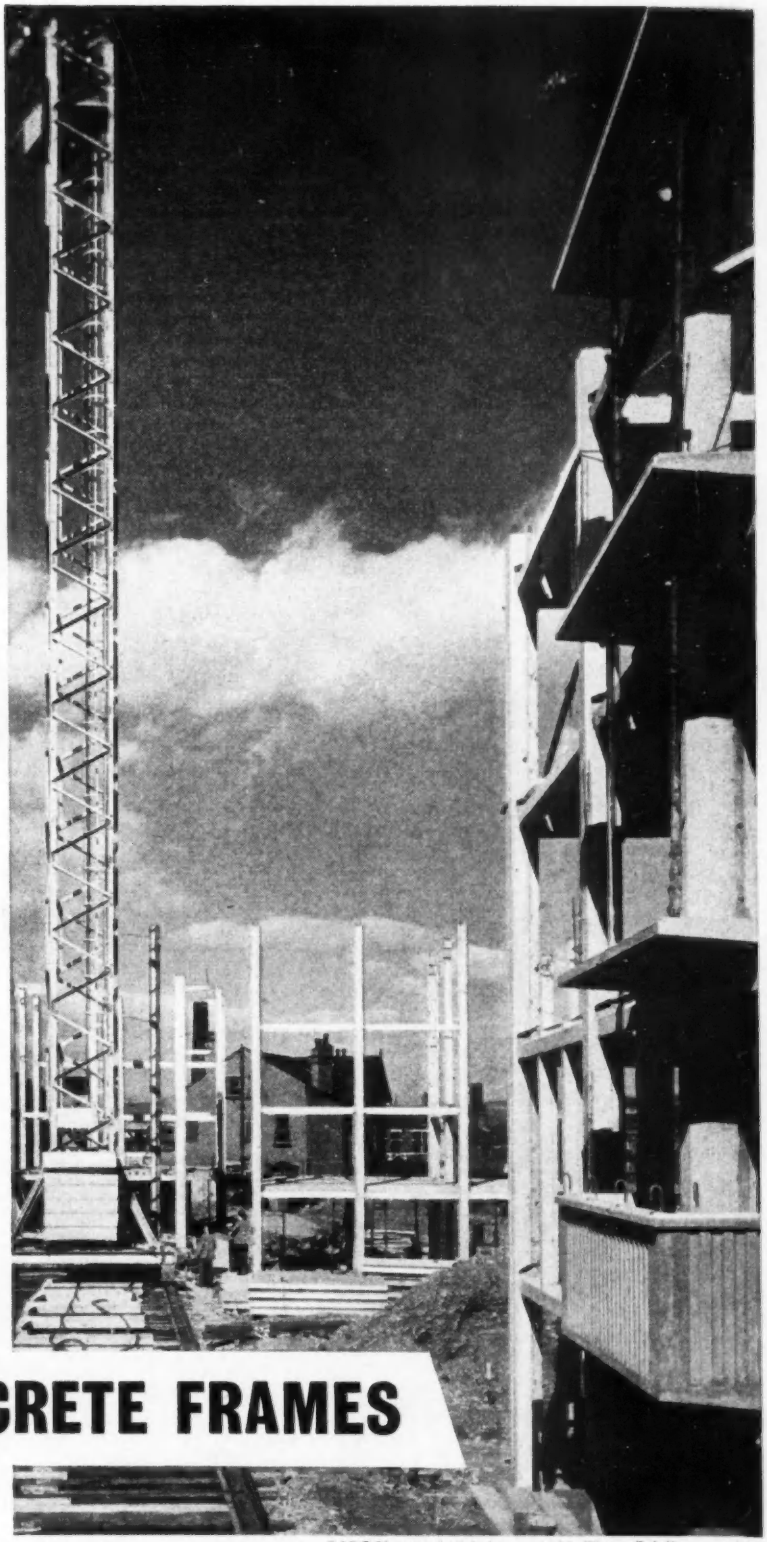

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RCA at the Milan Triennale

IN VIEW of the world interest in industrial design in the engineering industries the Milan Triennale has invited four of the leading colleges in the world teaching this subject to take part in this exhibition. One of the colleges so invited is the Royal College of Art, who have been asked to mount an exhibition demonstrating their teaching methods and the results of their teaching. The other schools are: Hochschüle für Gestaltüng, Ulm; Syracuse University, New York; Illinois Institute of Technology, Chicago. The stand is being designed by Professor Misha Black, who was appointed head of the School of Industrial Design (Engineering) last September, assisted by one of the tutors, Mr. Frank Height. The School of Graphic Design have been responsible for the photographs and typography. The Exhibition opens at Milan on July 18.

The Architecture Club

AN EVENING PARTY is to be held by the Architecture Club on July 7 at Burlington House, Piccadilly, W1. In addition to the Summer Exhibition some of the Royal Academy of Arts' private rooms will be open for inspection during the evening. Applications for tickets, price £2 2s. inclusive, should be addressed to the Secretary, the Architecture Club, 26 Store-street, London, WC1.

Leverhulme Travel Grants

FIFTY-FOUR applications were received by the RIBA for the Leverhulme travel grants to Brazil. Awards of £1,200 each, including travelling expenses, have now been made to Mr. D. P. Crease, MA, ARIBA, and Mr. G. H. Balcombe, ARIBA. The grants will enable them to work for a period of at least one year on the planning or building of the new federal capital, Brasilia.

Selective List of Architects

THE SELECTIVE LIST OF PRACTISING ARCHITECTS for 1960, now published by the British Data Service, includes, as in previous editions, a geographical list in county-town order and an alphabetical list giving the architect's name, his partners in practice and the area in which he is located. This enables useful cross reference from one section to another. A simple classification code is used to signify the types of work recently undertaken by each architect and the general trend of his practice. This list contains a total of 3,430 names and addresses of which some 860 are in the London area. The number of individual architects represented is approximately 5,250.

Clarendon Laboratory Extension

THE MULLARD COMPANY has given £25,000 toward the cost, estimated at between £50,000 and £60,000, of an extension to the Simon building, Clarendon Laboratory, Oxford. The university hopes to begin work on the extension early in 1961. It will consist of a high-magnetic field laboratory on the first and second floors, and a low-temperature workshop on the ground floor.

It is understood that the DSIR has approved a grant of £25,000 for the scientific equipment of the building, and that the trustees of the Higher Studies Fund are making a grant of £10,000 toward the cost of the building. The architect of the extension will be Mr. P. H. Bosanquet, AADipl, ARIBA.

Proposed University for Essex

IT IS EXPECTED that the University Grants Committee will indicate soon whether they are prepared to allow the proposal for a University of Essex to go forward. Financial support already promised includes an Essex County Council grant of £107,000 a year towards the cost of maintenance, and a guaranteed £93,000 from industry towards the capital cost of construction. An option to purchase the proposed site of 440 acres at Hylands Park, Chelmsford, has been granted and the county council have agreed to bear the cost. An ultimate student population of 2,500 to 3,000 is envisaged.

Bognor Rebuilding Scheme

A BIRMINGHAM development company and a Birmingham architect have put in a £10m. rebuilding plan for a large section of the sea front at Bognor Regis. The plan is one of five schemes submitted.

The Birmingham developers are Messrs. Page-Johnson, of Walsall-road, Great Barr, and the architect is Mr. James A. Roberts, ARIBA.

The new plan, believed to be the first of its kind in this country, is for complete reconstruction of one-third-of-a-mile of Bognor's front near the pier. It would involve the building of five eight-storey 'tower' blocks of flats and a 12-storey hotel, a dance hall and restaurants, a multi-storey car park, new civic buildings, including a civic hall and a cinema. These would all be linked by pedestrian shopping ways on the sea front and an elevated car-way and service road at the rear.

A new idea is for all the shops at ground floor level to be 'double-fronted'—with frontages facing the sea for summer visitors and facing a central glass-covered arcade for out-of-season shopping.

Founder of NBR

IN A REFERENCE, in our last issue, to Mr. Walter Godfrey's retirement from the directorship of the National Buildings Record, it was stated that Mr. Godfrey had founded the Record. The original suggestion for the establishment of the Record was, in fact, made in August, 1940, by Mr. C. Birdwood Willcocks, FRIBA, the Reading architect, in a letter to Mr. Ansell, then President of the RIBA. We are glad to acknowledge this fact.

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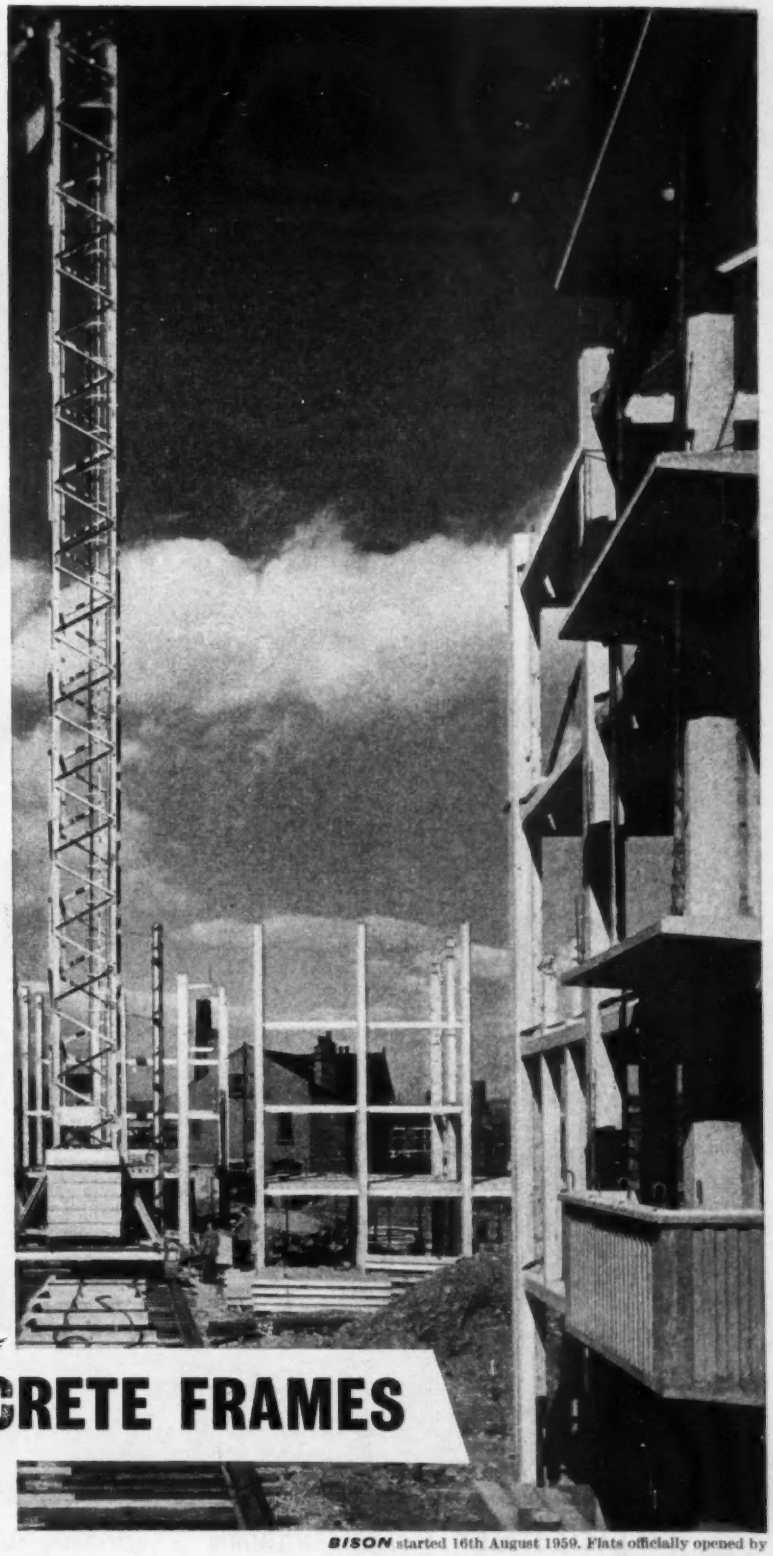

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More Work for Private Architects

RIBA Analysis Shows Increase in First Quarter, 1960

THE VALUE of new work commissioned of private architects in the first quarter of 1960 reached a new high level, being one-third greater than in both the previous quarter and the corresponding quarter of 1959. This seems to confirm the earlier indication of a seasonal influence in the flow of new work with a peak coming in the first quarter of the year. To what extent there will be a fall in new commissions in the second quarter of the year—or a cancellation or postponement of work also in the pipe-line—as a result of the Government measures in April to tighten credit, remains to be seen.

The information about new commissions has been obtained from a quarterly survey of a sample of all private architectural practices run by members of the RIBA.

Table 1 gives the results of the first quarter 1960 compared with the four quarters of 1959.

Commissions for new buildings for public authorities showed the biggest proportionate increase, being twice the level of a year earlier (see Table 2). The value of new hospital building commissioned in the first quarter of 1960 was four times the level in the first quarter of 1959, reflecting the impetus that has been given in recent months by the Government to the hospitals building programme.

New commissions for educational buildings were more than twice the level in the first quarter of 1959, while those for other buildings for local authorities also showed a substantial increase.

New work for private owners and developers came in at a rather more modest rate, with an increase of 17 per cent compared with a year earlier. Commissions for offices and banks showed a drop compared with the previous quarter to about the same level in the first quarter of 1959, while those for other commercial buildings were 23 per cent less than a year earlier. Industrial buildings did not show any marked change, new commissions remaining at about the same level as in the previous quarter although 17 per cent greater than a year earlier. Private housing on the other hand continued to show an increase, being nearly half as much again as in the previous quarter and 40 per cent greater than a year earlier.

Regional Analysis

Table 3 shows how the new work commissioned of private architects was distributed according to the regional location of the architect's office. These figures do not necessarily relate to the actual location of the proposed building work; for example, architects in London may be commissioned for work in other parts of the country, but all their work is included in the figure for the London and Middlesex region. Separate figures are shown this time for Scotland (by special request of the Minister of Works). The figures for Wales are included in the total for Great Britain but are not shown separately, because the small number of practices covered in the sample subject the results to a wide margin of error.

In all regions the value of new commissions in the first quarter of 1960 was higher than in the previous quarter and the corresponding quarter of 1959. The Midlands region and the Home Counties showed the largest increases compared with a year earlier. Compared with the fourth quarter of 1959 the value of new commissions coming to architects in the Home Counties was more than doubled.

Architects in the South West region fared less well than those in other regions of England, showing only a small increase of 6 per cent compared with the previous quarter. New commissions coming to architects in Scotland were actually less than in the previous quarter, although greater than in the first quarter of 1959.

Increase in Practices

Firms participating in the survey provided up-to-date figures of the staff employed by them at the end of 1959, from which an estimate has been made of the total architectural staff working in private practice at that time. The total number of private practices now approaches 3,100, an increase of 4 per cent over the number in practice in the middle of 1958.

These practices were employing an architectural staff of more than 15,000, an increase also of 4 per cent. These practices are having to cope with a volume of work which has increased at a considerably faster rate. Many of them would like to take on additional assistants but the shortage of these is almost universally felt. The RIBA Appointments Department have on their books vacancies for over 300 assistants for private practices in London and the surrounding counties.

There is thus a limited capacity at present for the quick expansion of architects' offices to meet the substantial increase in demand for new buildings that has taken place in recent months. This will tend to act as a brake on the progress of the work through the design stage, and thus to regulate to more moderate proportions the increase in the flow of work from the architect to the contractor.

TABLE 1. ESTIMATED VALUE OF NEW WORK FOR WHICH PRIVATE ARCHITECTS WERE APPOINTED

Period	1959 £ million	Change over previous quarter %	Change over same quarter of 1958 %	1960 £ million	Change over previous quarter %	Change over same quarter of 1959 %
First Quarter	267	+41	− 5	361	+34	+35
Second Quarter	222	−17	− 2	—	—	—
Third Quarter	225	+ 1	+60	—	—	—
Fourth Quarter... ...	270	+20	+42	—	—	—

TABLE 2. NEW COMMISSIONS FOR PRIVATE ARCHITECTS ANALYSED BY TYPE OF BUILDING

(£ million)

Type of building	1959 First quarter	1959 Second quarter	1959 Third quarter	1959 Fourth quarter	1960 First quarter
New Housing:					
For public authorities	17	28	13	13	18
For private developers	77	57	68	74	108
	94	85	81	87	126
Other New Buildings:					
Private industrial building	46	32	30	55	54
Private offices and banks	21	14	15	31	20
Other commercial and miscellaneous buildings for private clients	63	37	41	38	54
Educational (public and private)... ...	26	34	23	27	56
Other buildings for public authorities	17	20	35	32	51
Total, New Commissions	267	222	225	270	361
For public authorities	53	65	61	61	110
For private developers	214	157	164	209	251

TABLE 3. NEW COMMISSIONS FOR PRIVATE ARCHITECTS ANALYSED BY REGION, BASED ON THE LOCATION OF THE ARCHITECT'S OFFICE

(£ million)

Region	1959 First quarter	1959 Second quarter	1959 Third quarter	1959 Fourth quarter	1960 First quarter
London and Middlesex	105	73	100	99	120
Home Counties	37	22	40	28	64
South Western	15	18	9	16	17
Midland	25	28	27	33	46
North Eastern	30	20	21	25	37
North Western	27	22	16	28	39
Total, England	239	183	213	229	323
Scotland	23	31	7	33	30
Total, Great Britain (inc. Wales) ...	267	222	225	270	361

News from the RIBA

Council Approves Constitutional Committee's Report

THE COUNCIL of the Royal Institute of British Architects, meeting on June 21, approved the Final Report of the Constitutional Committee. The report will be published in the middle of July. This was announced at the Press conference held at the RIBA on June 22, at which the retiring President, Mr. Basil Spence, knight-designate, took the chair. Other items of news made known were:

British Architects' Conference, Manchester.—The Council approved a suggestion that a booklet be prepared to serve as a permanent record of the recent conference. The booklet would contain the papers (or summaries of the papers) and discussion, with other relevant items. A small group is to be given the task of compiling the booklet.

Subscriptions to the Architects' Benevolent Society.—On the initiative of the President and at the Council's request, the Finance and House Committee have made a study of present sources of income available to the ABS and of possible expedients for increasing the income.

The ABS has about £7,000 to distribute annually, of which some £3,000 is derived from members' subscriptions. Mr. Spence said he would like to see the figure of £7,000 doubled.

The proposal most seriously considered was to raise RIBA membership subscriptions by, say, 5s., the addition being paid over to the ABS and members having the right to contract out. This was rejected for various reasons, and the Committee concluded that the following are the most practicable ways of helping:

(a) A letter to be sent personally by the Secretary to each County, City and Borough Architect and to the senior partner of every private office employing over ten members, asking each to appoint a local collector to make regular collections and keep in direct touch with the Secretary, ABS.

(b) The institute to provide addressing facilities and pay the postage on a letter of appeal from the ABS to be sent individually to every member in the United Kingdom enclosing with it a form of Banker's Order for regular subscriptions to the ABS.

(c) The notice of subscription to newly elected members to be so amended as to encourage them to include a sum, or sign a Banker's Order, for the ABS.

The committee's report was unanimously accepted by the Council.

Christmas Holiday Lectures, Session, 1960-61.—The Council approved the Public Relations Committee's recommendation that Mr. Eric Lyons be invited to give this Session's lectures.

Research into the nature and rôle of professional associations.—Post-graduate research into the nature and rôle of the professional association in England and Wales is being carried out at the London School of Economics under the guidance of Dr. Tropp, lecturer in Sociology. Investigations are being made, by means of a postal questionnaire, into the activity and attitudes of members of associations, of which it is hoped that the RIBA will be one. The cost of the surveys will be met by a grant from the University Grants Committee.

The objects of the survey include: (a) To determine the activity of members within the association (attendance at meetings, participating in voting, readership of the Journal, etc.); (b) to determine the attitude of members towards the purposes of the association (e.g., what makes membership worthwhile, is there anything wrong with the association?).

The Council decided to support this survey, which could provide information that would be of value at no cost to the institute. The results will be made available in full to the RIBA, which will also have the opportunity of modifying the questionnaire.

RIBA grant to the Council for the Preservation of Rural England for financing the Co-ordination of Panels Committee.—The Council agreed to increase the RIBA grant to £300 a year.

Appointment of Technical Information Officer.—Last March the Council authorised the Technical Information Committee to recruit a Technical Information Officer on the scale of £1,250 x £50 to £2,000. The Council approved the appointment of Mr. Maurice Goldring, who is at present at the Ministry of Education. Mr. Goldring is aged 31 and was educated at Whitgift School, Croydon. From 1949-1951 he attended the Department of Architecture, Kingston School of Art and from 1955-1958 he was on the Course in Industrialised Building at the Hochschule für Gestaltung at Ulm in Southern Germany.

Appointments

Council for British Archaeology: Research Committee on Industrial Archaeology.—MR. J. M. RICHARDS was appointed as the Institute's representative to attend a meeting of the Research Committee on Industrial Archaeology on June 24.

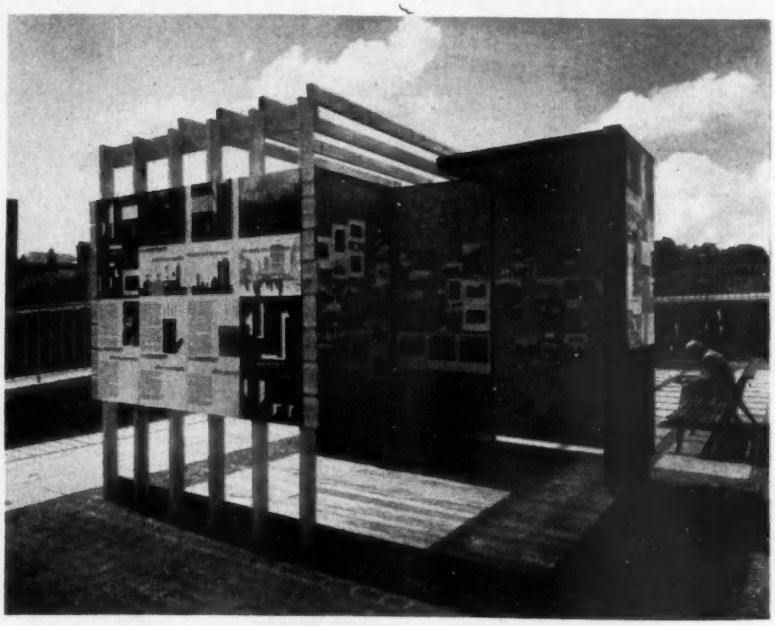
Regional Advisory Council for Technological Education (London and Home Counties); Architecture and Building Advisory Committee.—MR. BRYAN WESTWOOD (F) has been appointed by the Board of Architectural Education to serve on the Committee in place of MR. D. E. E. GIBSON (F) for the period ending August 31, 1961.

Southend-on-Sea Municipal College: Architecture, surveying and Building Advisory Committee.—On the nomination of the Essex, Cambridge and Hertfordshire Society of Architects, MR. P. F. BURRIDGE (F) was re-appointed to serve on the Committee for a further year commencing May, 1960.

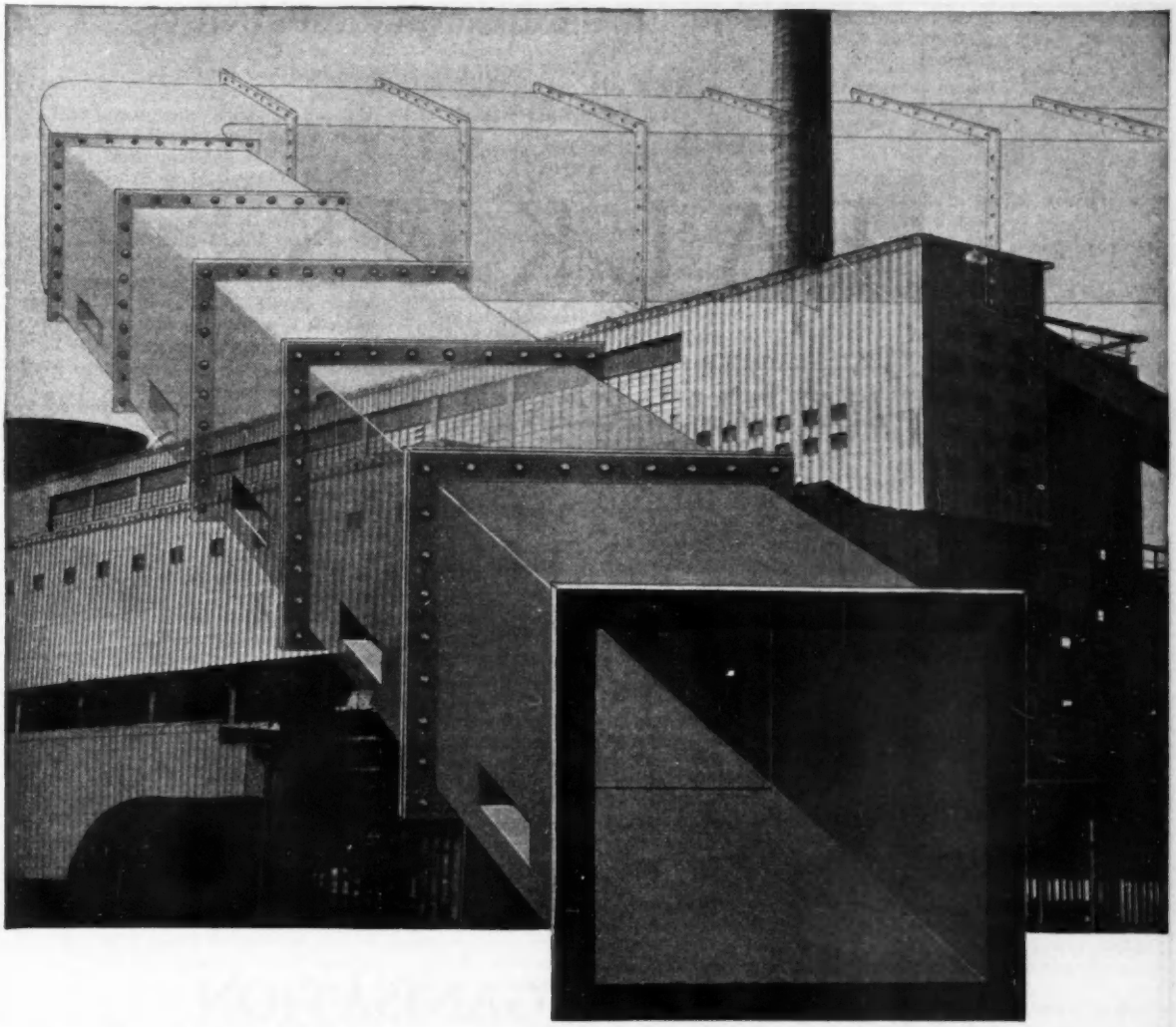
University of Wales: Faculty of Architecture.—On the nomination of the South Wales Institute of Architects, MR. NORMAN P. THOMAS (F) has been re-appointed to serve for a further three-year term of office, commencing July 1, 1960.

Birmingham College of Advanced Technology: Advisory Committee for Building and Civil Engineering.—On the nomination of the Birmingham and Five Counties Architectural Association, MR. C. E. M. FILLMORE (F) was re-appointed as the Institute's representative on the Building and Civil Engineering Advisory Committee of the Birmingham College of Advanced Technology for a further three-year period commencing July 1, 1960.

Sheffield University: Court.—On the nomination of the Sheffield, South Yorkshire and District Society of Architects and Surveyors, MR. E. F. WILSON (A) was appointed the Institute's representative on the Court of the University of Sheffield for the three-year period commencing July 1, 1960, in succession to MR. J. LEWIS WOMERSLEY.



NATIONAL ARCHITECTURE WEEK: *The Canterbury District chapter of the South-Eastern Society of Architects made its contribution to the Week in terms of a kiosk for distribution of information about the profession and of a display of photographs of members' work. The kiosk was designed and made in the School of Architecture of the Canterbury College of Art (Mr. R. W. Paine, ARCA, ARIBA, Head of the School of Architecture)*



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Annual General Meeting and Prize Giving

THE HIGH COMMISSIONER FOR GHANA (Mr. E. A. Asafu-Adjaye) was among those attending the annual general meeting of the Town Planning Institute at the Livingstone Hall, Westminster, SW1, on June 22, when on behalf of the winner, Mr. Enoch Hornsby-Odoi, who is at present in Ghana, he received the Institute's Silver Medal and Certificate for Schools of Planning 1959. Mr. Hornsby-Odoi, who has been studying at the Department of Town and Country Planning, University of Durham, was awarded the medal and certificate for the best thesis —it was entitled 'Urbanisation in Ghana' —submitted as part of the Degree or Diploma Examination conducted by a Recognised School.

Other prizes presented by the President (Professor J. S. Allen, B Arch, FRIBA), were as follows: 'The George and Amy Pepler Prize 1960,' for the best paper in Town Planning Practice in Part II of the final examination, to Mr. H. W. Emlyn Davies (Glamorgan County Council); and the Joint Board prize for the best set of papers for the 1960 Part II of the final examination, to Mr. Robert C. Scarlett (Durham County Council).

Review of the Year

In a review of the Institute's activities during the year, PROFESSOR ALLEN said the Education Committee had been responsible for the various examinations which, in addition to London and Glasgow, had been held in many overseas countries. The Committee was reviewing the examination syllabus and expected to report to the Council before the end of the year with a number of recommendations.

The Degree Course of the University of Melbourne had been approved during the year for exemption from the final examination and also the new course at the Edinburgh College of Art. An application for recognition had been received from the School of Planning of the Birmingham College of Art and Crafts and the Visiting Board was proposing to visit this school and that at the Edinburgh College of Art in the autumn.

The future of the Town Planning Joint Examination Board had been discussed by the Board, and it appeared that all were agreed that it had served a most useful purpose over a long period of years and could now be discontinued. The Board had communicated this view to the constituent bodies and those from whom replies had been received had indicated that they agreed that the Board should be dissolved.

Representations had been made to the Minister of Transport with a view to chartered planners being invited to serve on study groups relating to urban motorways, and a communication on this subject had also been addressed to the chairman of the committees for the conurbations concerned.

A special committee had been set up to investigate and report on the whole question of recruitment in the profession.

Tribute to Retiring Secretary

Opportunity was taken at the end of the meeting of paying tribute to the sterling work of Mr. Alfred Potter who was attending his last annual general meeting, and has now retired after 46 years as Secretary.

Recalling Mr. Potter's long services to the Institute, MR. S. L. G. BEAUFOY said he had been Secretary during the whole length of the Institute's life. Since 1914, when the Institute was formed, its membership had grown from 64 to over 4,000. In fact, Mr. Potter was inextricably woven in the fabric of the Institute's history. Mr. Potter had made an immeasurable contribution to their profession and he left them with all their good wishes and the wishes of hundreds and thousands of members all over the globe. Wherever the Institute's interests had been concerned, they had found in Mr. Potter tremendous shrewdness and an invincible determination always to get the best for the Institute.

Mr. Beaufoy moved a formal resolution recording the Institute's deep appreciation of Mr. Potter's work.

MR. W. BURNS, AMICE, seconding the resolution, spoke of Mr. Potter's friendliness particularly to the younger members over the years.

Acknowledging the tributes paid him, MR. POTTER said it would be a great wrench to give up the work he had loved. He recalled that he was the only officer appointed by the Institute for 30 years. He received a fee and employed whom he liked. He spoke appreciatively of the loyalty and good work of his staff, without whom he certainly could not have done all that had been achieved.

Mr. Potter wished his successor, Mr. P. R. Rathbone, every success and said he was sure he would serve the Institute well. 'If you support him as you have supported me,' Mr. Potter concluded, 'he will be the happiest man in the world.'

Bank Design in Chichester

Developers 'Despair of Reaching Agreement'

TWO-AND-A-HALF YEARS AGO, Barclays Bank vacated their East-street, Chichester, premises and moved to temporary offices pending the demolition of the old bank and the building of a new one on the same site.

What has happened in those two-and-a-half years was told to a planning inquiry at Chichester by SIR MILNER HOLLAND, QC, representing Barclays Bank. All that time, he said, the Bank had been trying to get the agreement of the City Council's Planning Committee to a new building, and now they had reached the stage where they despaired of ever doing so.

Referring to the fact that this was the second planning inquiry, Sir Milner said he suspected that, because the Planning Committee had lost the day at the first inquiry, it was now being 'a tiny bit obstructive.' The London architect, Mr. William Lloyd, said Sir Milner, had designed the new bank which the planners were rejecting on the grounds that it was 'too unneighbourly, too large, too heavy, and too cluttered with detail.'

'Responsible persons like one of the big banks,' he continued, 'ought to be entitled to engage a first-class architect and expect his plans to be accepted unless they conflict in some major way with the locality. But this is not such a case. It is a case in which the Minister, as the result of the first inquiry, suggested certain modifications to the plans before him at that time. New plans have been produced by the bank, and every suggestion made by the Minister has been acted upon. Now, the planning authority is arguing over the ornamentation of doors, and copings over the windows, and other such trivial matters which are not its proper function.'

MR. WILLIAM LLOYD, MBE, MA, FRIBA, the architect, of Curtis Green, Son & Lloyd, who told the inquiry he had designed a large number of banks for Barclays and had been engaged on many important projects, such as the British Embassy in Washington and the restoration of the Church of St. Clement Dane, said he could not see why the building he had designed in this case was not acceptable to the planning authority.

He did not agree with Mr. T. H. Johnston, the deputy clerk to the City Council, that the building was designed to be prominent—to 'stick out like a sore thumb.'

MR. DOUGLAS CLAYTON, chief architect in the County Planning Department, said the faults which the Minister found with the first plan were still as evident in the new one. The planning authority had gone out of its way to explain its point of view but it had not been heeded. The bank appeared to have taken no notice of the Minister's opinion.

In an effort to be absolutely fair to the bank, the planners had consulted the Georgian Group, who had suggested modifications, and they had decided, in an effort to end the matter, to accept the building if the Group's modifications were carried out. The bank, however, was not prepared to accept them.

The Minister's decision will be announced later.

BISRA Annual Report

THE ANNUAL REPORT for 1959 of the British Iron and Steel Research Association states that the Association now holds 205 British and overseas patents, with a further 237 applications pending. Forty-one licences involving many of these have already been granted. During the year under review the advisory steel user service dealt with 1,754 technical inquiries. The Association's income for 1959 was £929,597, an increase of £114,578.

Government Brake on Capital Expenditure

Some Implications for the Building Industry

By Our Parliamentary Correspondent

THE ANNOUNCEMENT by the Government that public capital expenditure in 1961-62 will be pegged at the level of the current financial year was a decision in principle, and its repercussions on the various Government, nationalised industry and local authority building programmes will not become known for some weeks, possibly months. The Government are anxious that no alarmist fears should spread. However, in one way and another the building industry will have a considerable interest in what looks like becoming a political issue of some magnitude, for the Opposition at Westminster have a few forthright ideas on which building, if any, should be cut.

'The Economic Survey, 1960,' published just before the Budget, stated that in 1960-61 public investment was likely to be about £1,675m., or six per cent higher than in 1959-60. The survey also forecast that expenditure on housing by local authorities was likely to rise by about £20m. and all other public investment by about £75m.

The statement in the Commons by Mr. Heathcoat Amory, the Chancellor of the Exchequer, gave no indication of any projects that would have either to be delayed or abandoned, so at the moment it can only be supposed that the Minister of Power's description of 'retarded acceleration' when he made his announcement on the nuclear power programme will also fit the future plans in other spheres.

A Counter to Inflation

The Government decision came after meetings of the Cabinet in which non-Cabinet Ministers who head spending departments joined. They included the Postmaster-General, the Minister of Health and the Minister of Power. This restraining hand has been placed on the public sector as a measure against inflation to reduce demand on resources at home.

In the weeks ahead Ministers will be busy discussing with the Chancellor their capital programmes for the next financial year. The following are some of the figures of public expenditure for 1960-61: National Coal Board, £120m.; Electricity Council, £285m.; British Transport Commission, £200m.; roads, £92m.; Post Office, £91m.; housing, England and Wales, £241m.; housing, Scotland, £44m.; water, £33m.; sewerage, £42m.; Gas Council, £53m.; education, £108m.; University Grant Committee, £24m.; hospitals, £31m.

It does not necessarily follow that these figures will all remain unaltered, for within the total there is room for adjustment by slowing down some programmes and accelerating others. The Cabinet will have to sort out and decide the priorities. For instance, there is bound to be pressure to try and increase the roads programme, while that for hospitals has reached a stage where it is not quite really under way.

Effects on Roads Programme

Those who have been pressing for more roads would be disappointed if their calls were not heeded and this latest announcement has given added significance to the Ministry of Transport's study into the possibility of introducing tolls to help pay for some new road building. This inquiry is part of the initial planning of motorways which have not yet been scheduled. The idea has been mooted, too, that the Minister might like to divert some of the capital planned for modernising the railways to improving the road system.

By making the statement now there will be good time for Ministers to prepare their Estimates for 1961-62 on the basis of keeping total expenditure steady. Not until early next session will a much more accurate picture emerge, and it is expected that MPs, following their demands during the current session, will have more opportunity to debate future expenditure and the priorities that they would prefer to be set. They want more say before, not after, the Estimates have been framed.

Part of the Opposition's line of action became apparent in questions to Mr. Amory. Mr. Harold Wilson vigorously alluded to the high cost of land and what he labelled luxury building. He was only re-echoing a recent week-end speech by Mr. Hugh Gaitskell, Leader of the Opposition, who had called rocketing land prices 'a major scandal.' But more will be heard of this if the House debates the economic situation, as it surely must, before it breaks up for the long summer recess at the end of July.

Government supporters in the House are in the main satisfied with the announcement, for there have been signs in the last few months that many of them are worried about the rising Government expenditure and the growing capital programmes of the nationalised industries. A group of them have been calling noisily for greater control and closer scrutiny by the House of Commons and they look like getting their way. All this goes to suggest intense financial discussion at Westminster for the remainder of 1960.

Architects Criticised

'Aloof and Unco-operative' Allegation

ALD. W. M. HYMAN, chairman of the West Riding County Council and former chairman of the county's education committee, in his foreword to a description of the work of the West Riding county architect's department published in the journal of the West Yorkshire Society of Architects fires a broadside at architects, and says he 'has been shocked too often.' He goes on, 'I have on the whole found architects aloof and somewhat unco-operative. They were unwilling to accept suggestions from members of the council committee although the members have been in this for 20 to 40 years, and in any case, we are the clients.'

Some of Ald. Hyman's comments are: *New Schools.* 'What gives me the jitters when I arrive at the opening of a school is to see an uninteresting oblong box subdivided vertically and horizontally into small boxes, plus corridors.' *Foyers and entrances to schools or police stations.* 'They can be so imaginative; why is it more often they are so dreadfully dull?' *School Halls.* 'We have so many halls worth looking at and sitting in, but so many that are just boxes with windows.'

Commenting on the remarks of Mr. Hyman, one of the joint editors of the journal MR. DEREK S. BOTTOMLEY said that the decision to feature the WRCC architect's Department was taken about four months ago. They might not agree with Ald. Hyman's views but they felt he was at liberty to air them.

Cricket

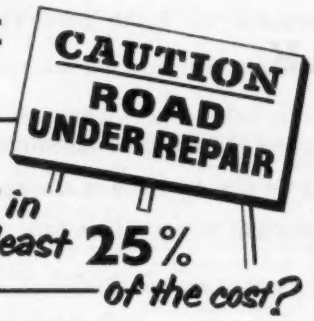
RICS beat LMBA

THE ROYAL INSTITUTION OF CHARTERED SURVEYORS, in their annual match against the London Master Builders Association, played at Pearl Assurance Ground, New Malden, on June 22, came out comfortable winners by 56 runs after a most enjoyable day's cricket.

Winning the toss, Alan Goater elected that the surveyors should have first knock. With the score 22 M. Fletcher was magnificently caught in the slips by A. Cload. C. Trounce (32) and J. Drew (40) added 60, but then both were out caught and bowled. I. Brown was next out to a wonder catch by Cload, when forcing the pace. A. Goater and K. Bignold then added 88 in 29 minutes, the former then being easily stumped for a truly hurricane 82 scored in 68 minutes. He hit 14 fours and 2 sixes, and the closure was applied with the score 212 for 7. For the builders, G. Noble had the best analysis of 4 wickets for 54 in 15 overs. The fielding was very good and W. Lawson kept a splendid wicket for the LMBA eleven.

The builders made a shocking start to their reply, and were in dire trouble with the score 49 for 5 wickets in three-quarters of an hour. W. Lawson, however, batted in fine form to assist the recovery. He was unlucky to play on to his wicket with his score 54 (11 fours). The captain, B. J. Garrett, last man in, hit a brave 34 out of 38 scored for the last wicket, and he was undefeated. The innings closed for 156. Both C. Harrison (4 four 40) and K. Burnett (4 for 39) bowled extremely well, the latter impressing on his debut.

CONCRETE ROADS



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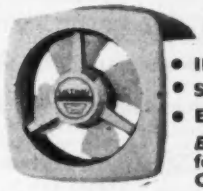

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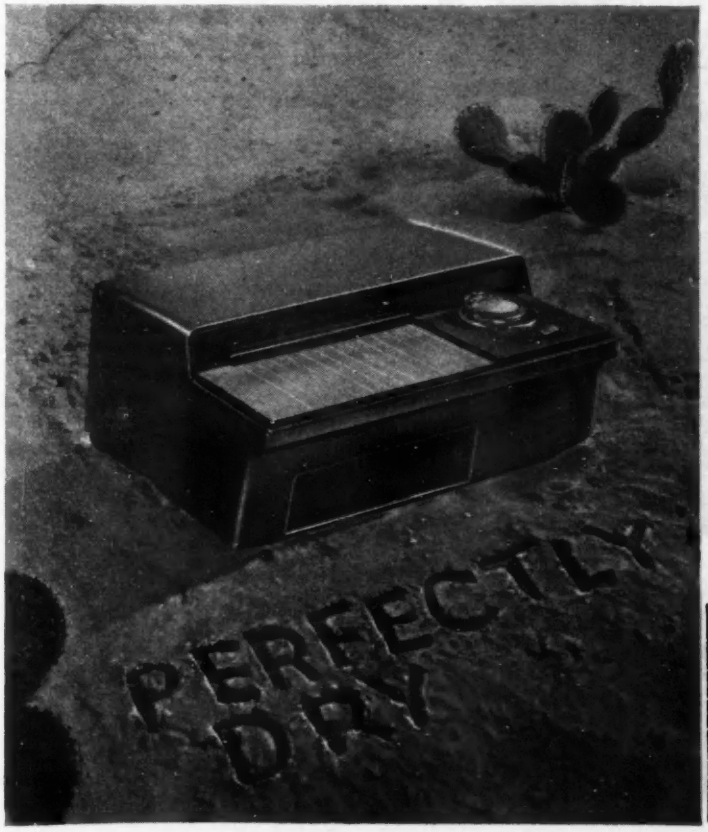

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The Week in Parliament

From Our Own Correspondent

Slowing Down of Nuclear Power Programme

THE SLOWING DOWN of the nuclear power programme, as briefly reported in our last issue, was announced by MR. RICHARD WOOD, Minister of Power, in a White Paper presented to Parliament on June 20, the day MPs reassembled after the Whitsun recess. The reduction in expenditure on nuclear stations by the end of 1966 will be £120m. but the net saving will be about £90m. because more will be spent on new coal-fired power stations and extensions to existing conventional stations.

The revised nuclear programme of March, 1957, would have provided 5,000 to 6,000 megawatts of nuclear power by the end of 1966. This latest revision means that 4,500 megawatts will come from nuclear energy by that time and the target of 5,000 megawatts will now be reached in 1968.

Five nuclear power stations are at present being built. They are at Berkeley (Gloucestershire), Bradwell (Essex), Hinkley Point (Somerset), Trawsfynydd (Merionethshire) and Hunterston (Ayrshire). Tenders are being considered for Dungeness (Kent) and Sizewell (Suffolk). An application for a site at Oldbury (Gloucestershire) is under consideration.

The White Paper pointed out that the five stations would come into operation in 1961 and all seven should be in operation by 1966. They had a total output capacity of approximately 3,000 megawatts and to reach a total capacity of 5,000 to 6,000 megawatts by the end of 1966 it would be necessary for the electricity authorities to place exceptionally large orders for nuclear capacity during the next two years for commissioning in 1965 and 1966.

Discussing comparative costs of nuclear and conventional power, the White Paper said that although the cost of electricity from the first nuclear stations to be commissioned next year would be rather higher than earlier estimates, the costs of later stations were following closely the downward trend foreseen in 1957. What was not then foreseen was the extent of the fall which had also taken place in the costs of conventional power from new stations.

Adds the White Paper.—'In the long run we shall therefore need increasing supplies of nuclear power. In about 10 years' time it should be cheaper to generate base load in nuclear stations than in conventional stations provided that we achieve the technological progress that is expected. To secure this we must continue to build nuclear stations on an adequate scale.

'In these circumstances the Government have decided, in agreement with the authorities concerned, that the national interest will best be served by continuing, for the time being, to place orders for nuclear stations at the rate of roughly one every year. The capacity of individual stations is likely to increase so the effect of this decision should be a steadily rising rate of nuclear commissioning which should give the country about 5,000 megawatts of capacity in 1968.'

Turning to capital cost, the White Paper states that compared with the 1957 programme and after allowing for more conventional stations, it was estimated that this rate of ordering would reduce by £90m. the cost of power stations to be commissioned during the next seven years. There would however, be some loss to the Atomic Energy Authority.

*** At a Press conference the same day MR. RICHARD WOOD said he was convinced the programme was adequate for the health of the consortia which had been formed to build nuclear power stations. This was one of the most important considerations in their mind but it was essential not only from the point of view of exports but also for the future of nuclear power development that they should be kept active so that they would be able to take advantage of the expansion when it came. It seemed to him that if there were five or six stations in various stages of development at any given time, the existing consortia would be kept busy.

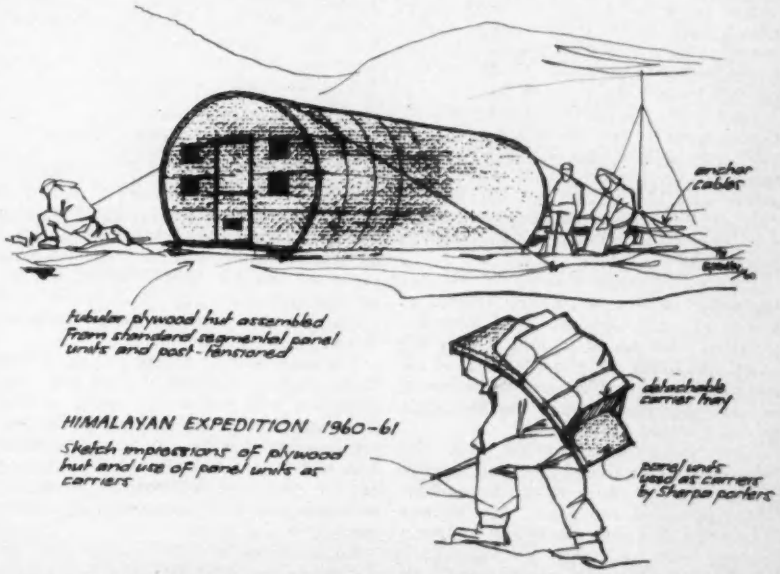
Money for Historic Buildings

THE Minister of Works, LORD JOHN HOPE, was questioned in the Commons on June 21 about the annual reports of the Historic Buildings Councils for England and Wales (detailed in 'The Builder' of June 3). MRS. BARBARA CASTLE, for the Opposition, referred to the criticisms in the reports about the inadequacy of the funds made available for the repair and maintenance of buildings of outstanding historical and architectural interest, and wanted to know what steps the Minister intended to take to meet these criticisms.

When LORD JOHN HOPE replied that he was considering the Councils' remarks in consultation with the Treasury, MRS. CASTLE contended that the Minister's parsimony to date had resulted in the signing of the death warrant of fine buildings. Was it not intolerable that retrenchment on the preservation of beauty should become one of the hallmarks of the affluent society? Would he not, therefore, at least restore the 33⅓ per cent which was cut from expenditure of this kind? THE MINISTER said that as well as the Councils' remarks, he would consider Mrs. Castle's as well.

MR. JOHN DUGDALE said it was most unfortunate that at a time when this country had never had it so good there should be so many buildings falling into decay for lack of adequate funds (here MR. ELLIS SMITH interjected, 'Especially workers' houses'), including some workers' houses which were of historic interest and beauty. Would not the Minister consider giving greater help so that these buildings might be preserved?

LORD JOHN HOPE said those observations lent themselves to some very tempting forms of riposte on which he would leave Mr. Dugdale to reflect in silence.



A sketch of the plywood 8-man hut to be used as the base for the 1960 physiological and mountaineering expedition which Sir Edmond Hillary is to lead to the Himalayas. The hut, which will probably be erected and dismantled several times, is for use at altitudes of up to nearly 20,000 ft., and has been designed for extreme lightness, high thermal insulation properties and easy erection. The hut was designed in close collaboration with Sir Edmund Hillary by Mr. E. Levin, ARIBA, chief architect to the Timber Development Association. Special plywoods for the construction are being donated by the British Plywood Manufacturers' Association and the BRS are advising on heating and ventilation. The hut has been constructed by Messrs. J. M. Jones and Sons, Ltd., of Maidenhead, whose director, Mr. W. S. Jones, FIOB, handed it over on Tuesday to Sir Edmund and other members of the expedition

VISCOUNT HINCHINGBROOKE wondered if there was any chance that if the House refused an increase in the Ministry of Works Vote for this purpose the Minister would report to the Chancellor so that the latter could reduce taxation to enable owners to keep the houses in repair.

MR. A. WOODBURN said that while the Historic Buildings Councils appreciated the considerate and tactful way in which the Minister had approached this problem, two large problems had arisen in Scotland and England which had taken most of the funds for one year, making the job of dealing with the smaller items a little more difficult. This was something quite outside what was originally contemplated in the amount of money granted. Would he ask the Chancellor if something could be done for these exceptional cases to relieve the councils of the large obligation involved?

LORD JOHN HOPE said he would see that Mr. Woodburn's remarks were borne in mind when they were considering this matter.

Tall Buildings Near Hyde Park

QUESTIONED about the proposed new hotel in Park-lane, EARL WALDEGRAVE, who speaks for the Government on Housing and Local Government matters in the House of Lords, stated on June 21 that the Royal Fine Art Commission were critical of allowing high buildings on the edge of the London Parks and for this reason were opposed to both the original and revised scheme. 'The Government,' he added, 'while fully sharing their view that a continuous cliff of high buildings round the parks must be avoided, cannot accept the view that individual high buildings properly spaced from one another should not be allowed.'

LORD AMULREE wondered whether the Government had studied what the RFAC had said, namely, that if such buildings were put up around the park the rural aspect would be destroyed. Did not the Government think some notice should have been taken of what the Commission said?

EARL HOWE asked whether it was not far better to have a building erected as a sort of tower with plenty of room for air circulation round it, than a very big block which did not allow for that at all. He merely said that because he happened to live near it and hoped the Minister's approval would be upheld.

EARL WALDEGRAVE replied that the Minister did not accept the Commission's proposition that there should be no high buildings round the park. Mr. Brooke considered that proper buildings, properly spaced, were and must be acceptable. He (Earl Waldegrave) would agree with Earl Howe that if there were proper building the air circulation around a narrower building might be better than that round a squat building. He thought that that was probably so.

LORD MOTTISTONE asked: 'In view of the grave public dismay as to what has already been allowed and now threatens, to the detriment of the London parks, will the Government enunciate a policy to define the encompassing skyline for the guidance of these developers and of the local authority?'

When EARL HOWE queried if Lord Mottistone was talking about the Bowater building, LORD MOTTISTONE said he was talking about the whole idea of enclosing the park with high buildings, whether they were widely spaced or close together. The whole point was that he, and surely the Government also, felt that the park ought to be a rural area, not overtopped by high buildings.

EARL WALDEGRAVE thought that as in all matters this had to be a matter of compromise. The Minister took the view that the analogy of Hyde Park and Central Park was not accurate and he and the local planning authorities would secure that there was not a cliff of continuous high buildings round the parks and in the open spaces in the centre of London. Provided that that evil—because it would be an evil—did not take place, the Minister felt that properly designed buildings, properly placed and spaced were and must be acceptable in this modern age.

There were cheers when LORD MANCROFT observed: 'Does not this and similar controversy suggest that the time has come for a complete overhaul of the whole of our planning procedure, a procedure which may have sufficed for the day and needs directly after the war, but which is now clearly insufficient for modern requirements?'

To this EARL WALDEGRAVE said he could not, without notice, express an opinion, but Mr. Brooke would take note of everything that had been said.

VISCOUNT ALEXANDER OF HILLSBOROUGH, Leader of the Opposition in the House of Lords, closed the exchange by commenting that if there was going to be any overhaul they might perhaps overhaul the Royal Fine Art Commission as well.

National Federation

Half-Yearly Meeting Programme

THE HALF-YEARLY MEETING of the National Federation of Building Trades Employers will be held on Tuesday and Wednesday of next week. It will be preceded by a reception being given in Guildhall at 8.15 on Monday evening by the President and Council of the London Master Builders' Association. Programme:

Tuesday, July 5. Meeting opens at the Royal Festival Hall (10.30 a.m.) when the President will review the work of the Federation and of the industry during the previous six months. A general discussion will follow and afterwards a debate on the technical information needs of members, and how those needs should be met.

Luncheon will be taken at the Hall. In the afternoon there will be a full debate on the recruitment of managerial staff for the industry, with particular reference to the supervisory grades and the future of the general foreman.

Wednesday, July 6. Meeting transfers to the RIBA Headquarters, 66 Portland-place, W1 (10.15 a.m.) when a paper on 'The Federation and Its Future' will be presented by the Director, Mr. Peter Trench, OBE. This will be followed by discussion.

Brick Investigation Refused

MR. DODDS asked the Minister of Works on June 21 to have an investigation made into the brick situation 'in view of the long-standing shortages of bricks that there have been for some considerable time, which are hampering the building trade.'

Replied LORD JOHN HOPE: 'No. I am keeping in close touch with suppliers and users and the manufacturing industry is making great efforts to meet the high demand. Deliveries so far this year have been a post-war record.'

MR. DODDS said it was estimated that 8,000m. bricks were required this year and that brick production would be nowhere near that figure. Was the Minister also aware that many builders said that even by placing orders now they could not get bricks before November and December unless they paid black market prices? Would not the Minister have an investigation to find out the facts before it was too late?

MRS. BARBARA CASTLE commented that the Minister had given another complacent reply. Was not it his Ministerial duty to see that the supply of bricks was adequate? Was it not wrong of him to hand over responsibility for discharging that duty to the brick-making industry, which was reaping record profits out of the shortage?

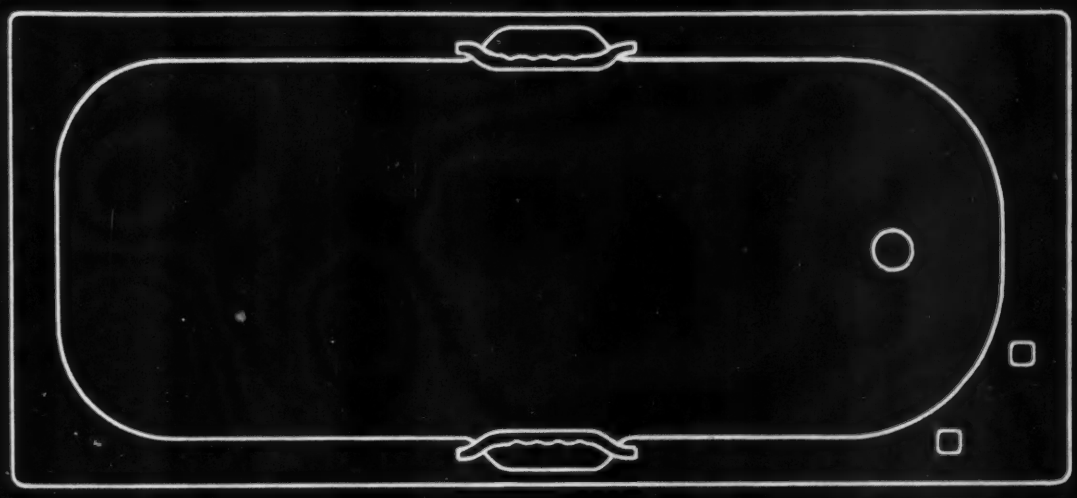
LORD JOHN HOPE: 'I do not know whether or not it is reaping record profits, but it is producing a record number of bricks. That is a matter for pleasure, I am sure, to Opposition MPs, just as it is to me and Government supporters.'

In a written reply, LORD JOHN HOPE told MR. MCINNES that he was not aware of any current shortages of bricks in Scotland. Deliveries this year had been at a very high level and stocks had risen, but he was always ready to look at any specific difficulties drawn to his attention.

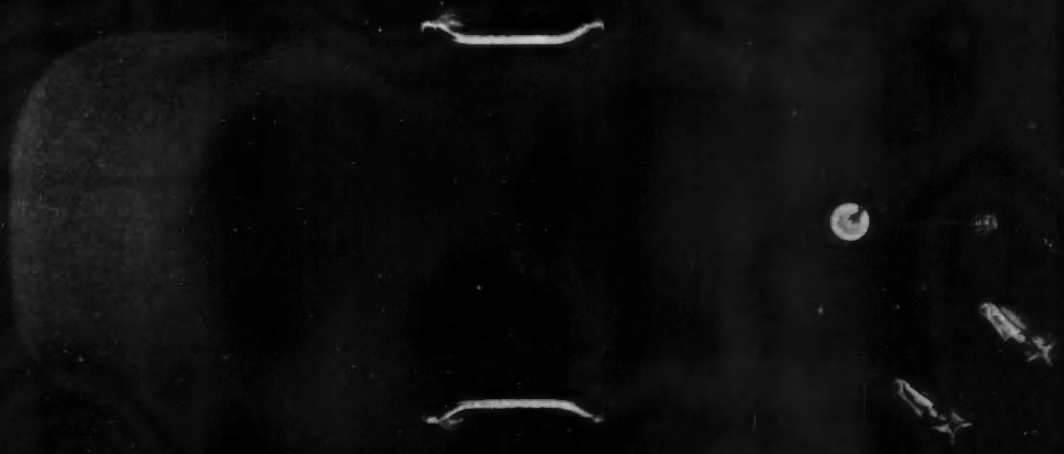
Government Expenditure and the Building Industry

THE PROGRAMME of expenditure on investment in the public sector in 1961-62 will be held at the level of the current programme in the present financial year. This announcement by the Chancellor of the Exchequer in the Commons on June 23 is one that affects the building industry considerably for it means that besides investment by the nationalised industries and local authorities, all the various building programmes by the Government involving roads, hospitals, prisons, schools and projects on Government establishments and public buildings at home and overseas will be pegged to the total of the Estimates which were detailed in 'The Builder' just before this year's Budget. The tempo of these programmes will in the main be steady, not faster as has been urged mainly in the case of roads and hospitals.

MR. HEATHCOAT AMORY, asked what steps he proposed taking to maintain the stability of the £ sterling, said that a healthy external position was closely linked to a sound balance in the internal economy. As he had said in the Budget



For design, finish . . . choice of sizes and colours,



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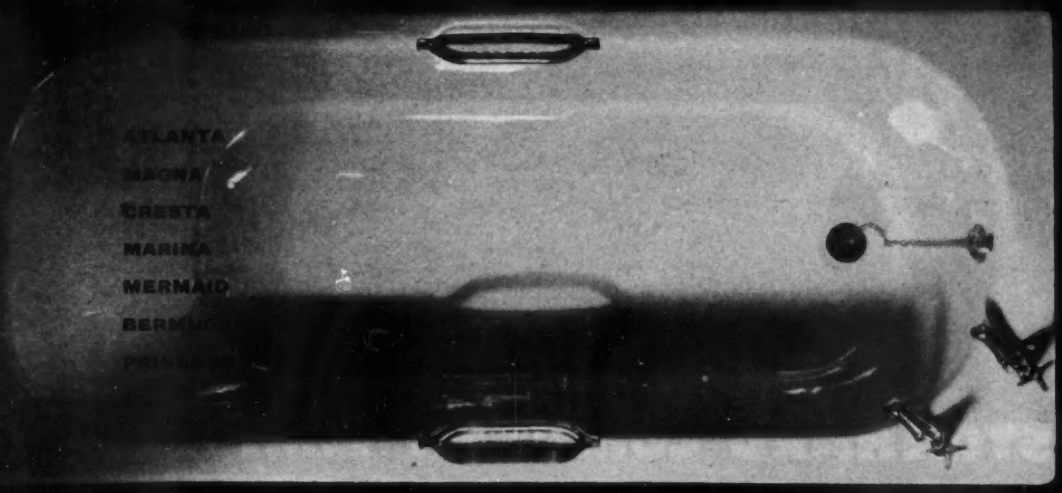

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their purpose was to ensure that their policies were adapted to changing circumstances. A number of steps had already been taken to restrain the growth of credit and the measures announced that morning (raising Bank rate to 6 per cent and the doubling by the clearing banks of their special deposits at the Bank of England thus 'freezing' another £73m.) were intended to reinforce these steps.

He went on: 'At the same time the Government have been reviewing the level of capital expenditure in the public sector. The increased rate of expenditure in this field is now beginning to diminish although there will be small increases in the next two quarters of this financial year. But the Government are arranging that the programme of investment in the public sector for 1961-62 will be held at the level of the current programme for the present financial year.'

He explained that the object of the steps which he had taken was to maintain the economy in balance and keep off inflation. The economy today in general was in a very healthy state and he meant to do his best to keep it so.

MR. RIDSDALE said that the Chancellor's statement that the level of public expenditure would be restrained in the coming year would be much welcomed by many people. Many believed the rise in Bank rate would not have been necessary if the Chancellor had been able to restrain Government expenditure this year.

MR. HAROLD WILSON, the 'Shadow Chancellor,' said the Opposition's complaint was that by failing to control the excrescences of private expenditure, particularly some of the private luxury building, speculation in land and the rest of it, the Chancellor always took for the Tory the easy way out, of jumping on the essential public, social expenditure of the local authorities.

MR. AMORY replied that steps were much more effective in avoiding possible risks and dangers if taken in good time.

Other Business

Housing, Easington and Peterlee

MR. SHINWELL asked the Minister of Housing and Local Government on June 21 how many objectors had indicated their opposition to the proposals of the Durham County Council planning committee relating to the Easington area; when the inquiry would take place; and to what extent it was now the policy of his department to prevent the Easington Rural District Council from building houses outside the new town of Peterlee so that those people who had no desire to live in Peterlee might be provided with accommodation elsewhere.

MR. H. BROOKE wrote: 'There have been 212 objections to the Easington Town Map and six petitions from residents in South Hetton and Haswell. The inquiry has been arranged for September 14. The extent to which houses should be built elsewhere than at Peterlee is one of the main questions arising on the town map, and I cannot therefore express an opinion until I have received and considered the report of the inquiry.'

Loss of Farm Land

MR. JOHN HARE, Minister of Agriculture, Fisheries and Food, said in a written reply on June 23: 'According to the agricultural returns, the total net decreases in the agricultural area of England and Wales in the twenty years from 1939-40 to 1958-59 were 524,000 acres on account of building, and 75,000 acres on account of other developments (i.e., sports grounds and, from 1953-54, mineral workings). The figures for the year 1958-59 were 27,700 acres and 8,900 acres respectively.'

Book

'A Building Firm Steps Out'

A BUILDING FIRM STEPS OUT: THE CASE HISTORY OF A. HEAD, LTD. By Cecil A. Francis. (London: 'The Builder,' 4, Catherine-st., WC2.) Price 2s. 6d.

MANY YEARS ago the writer had the pleasure of knowing an old speculative housebuilder in a modest way of business who was fond of recalling that in his youth he had worked at the bench next to a man who later founded a firm that was to become one of the largest and most successful building and civil engineering contracting concerns in the country, and who ended up as a millionaire and a national figure. It would be idle to inquire why the one should have been, in the worldly sense, a comparative failure and the other a brilliant success, but it is interesting to reflect on the change that might have occurred in the fortunes of the small builder if BAS (Building Advisory Service) had existed in his day and he had had the good sense to consult it and profit by its advice.

Readers of 'The Builder' need no introduction to 'A Building Firm Steps Out,' which appeared as a series of articles in the paper a few months ago, now reprinted in booklet form. Mr. Francis, who is the head of the Building Advisory Service of the NFBTE, deals with the case of a firm of builders who at the end of 1957 are employing about 200 men, with a turnover of approximately £350,000. The question arises whether that turnover should show a bigger margin, and it is decided to call in BAS to investigate the business and advise on the application of new management techniques. Mr. Francis follows and explains the process of conversion with its snags and difficulties in considerable detail, deftly blending dialogue and human interest with technicalities. The story ends, as it should, with Albert, the head of the firm, finding that the returns are 'well up on all previous years.'

The booklet should do good work in disseminating, especially among executive staff and general and craft foremen, a wider knowledge of up-to-date management techniques and the benefits that can follow their adoption.

G. J. HOWLING.

Basic Materials

Wholesale Prices in May

IN MAY the wholesale price index of all manufactured products sold on the home market showed a rise of 0.2 per cent over the figure for the previous month. The cost of basic materials and fuel used in industry remained virtually unchanged. Increased prices for some raw materials, including imported softwood, were offset by lower quotations for copper and pyrites with small decreases in tin, zinc and fuel. The price indices for materials and fuel used in the mechanical engineering and electrical machinery industries remained provisionally unchanged in May as compared with the latest figures for April.

The May wholesale price index issued by the Board of Trade for all building and civil engineering materials at 146.6 shows a provisional increase of 0.1 per cent over the figure for the previous month. The house-building materials index at 146.4 again shows a provisional increase of 0.2 per cent (June 30, 1949=100).

Commodity	May, 1959	April, 1960	May, 1960
Coal	136·2	140·3*	135·0*
Slates	136·1	136·1	136·1
Refractory goods, including bricks	127·6	127·0	127·4*
Non-refractory goods, including bricks	110·1	113·5*	113·5*
Building bricks, common, other than fletton, ex-works	112·3	117·4	117·4*
Building bricks, fletton common, delivered	105·2	105·2	105·2
Glass (other than containers)	120·8	121·5	121·5*
Cement, delivered	115·3	113·2	113·2
Cast stone and cast concrete products	102·8	103·6	103·6*
Synthetic resins and plastic materials	90·2	89·5	89·5*
Paint for building and decorating	108·7	108·4	108·2*
Steel sheets	127·9	126·5	126·5
Aluminium and aluminium alloy products (extruded and drawn)	124·4	129·0	129·8
Galvanised cisterns, tanks and cylinders	112·4	126·9	126·9
Home-grown hardwood ...	104·9	95·7	95·7*
Wallpaper	119·8	119·8	119·8*
Aluminium, virgin ingot, delivered	115·4	119·2	119·2
Copper, ex-ship, wharf or warehouse	95·0	105·5	99·9
Lead, ex-ship, wharf or warehouse	73·4	80·4	80·3
Zinc, ex-ship, wharf or warehouse	98·8	118·1	117·7
Imported hardwood, ex-yard or wharf	103·0	108·2*	108·6*
Imported plywood (delivered to consumers)	93·1	95·9	96·5
Imported softwood (delivered to consumers)	94·6	103·2	103·7

* Provisional.

Personal Column

MR. LOUIS OSMAN, BA (ARCH), FRIBA, has been appointed consultant architect to the British Aluminium Co. Ltd.

Building in the City

Decision on Traffic Route Through Barbican Redevelopment Area

ON A DIVISION, the Court of Common Council of the City of London rejected, on June 16, by 51 votes to 43 a recommendation by the Barbican Committee to delete from the Barbican redevelopment plan the proposed north to south traffic route linking Golden-lane with Fore-street. The committee argued that the road would be 'prejudicial to the precinctual character of the area' but the Streets Committee urged the retention of the transverse road.

The road, said the Streets Committee, was not a new traffic route but alongside and in substitution for the route which had been in existence in continuity for at least 700 years in recorded City history.

MR. E. F. WILKINS, chairman of the Barbican Committee, said that the question was whether or not there should be a north-south traffic route through the Barbican redevelopment site. There was a division of opinion between the committees and the matter must be resolved by the decision of the Court.

'1066 and all that is always of interest, but I submit that the historical observations of the Streets Committee are not relevant to our discussions today,' said Mr. Wilkins. 'Therefore, in the best interests of the traffic needs of the City as a whole this transverse road should be deleted.'

It was a paradox that concurrently with the demand for more and more roads for traffic needs there was also a demand for more and more areas which should be kept free from traffic. This transverse route was an alien element in a residential precinct. It did not constitute an effective north-south traffic route and was inimical to the best interests of the Guildhall School of Music and Drama.

They had passed the stage of considering the merits or demerits of the Barbican scheme. They were committed to the creation of a residential precinct.

'Pampering' of Residents

MR. D. GORDON MILLS, chairman of the Streets Committee, said it was incredible that those residents must be so pampered that they must not even hear the sound of traffic essential to the commerce of the City of London. It was that commerce and traffic which had made their highly subsidised existence even possible.

The City of London was the best judge of its personal difficulties and problems and no outside pressure should make them deviate from what they believed to be in the best interests of the City. There was more and more need now for improved roads. They should never be thinking in terms of the abolition of roads.

MR. B. G. ARTHUR, chairman of the Improvements and Town Planning Committee, said that whereas the Barbican Committee were primarily charged with the task of developing the Barbican area as a genuine residential unit, his committee had responsibility for the layout of roads and especially for the proper circulation of traffic. They were opposed to the elimination of the proposed north-south traffic route.

MAJOR S. E. SANDLE said many were saying that the route was essential, but they had never heard of it until now. To his recollection this had never been a main north-south route.

MR. W. H. GUNTON thought it was rank bad planning to lay out a new residential area with gardens and other amenities and then to bisect it with a main traffic artery.

SIR SYDNEY FOX said that the City was essentially a place of business and commerce. 'We should never forget that its maintenance as a place of business and commerce is dependent on the free circulation of traffic.'

He said the Barbican Committee proposed to allow no traffic to go through the 35-acre area because they wanted to preserve quietude for future residents. Was it reasonable to expect to find in any great city any area which was free from the noise of traffic? The Barbican Committee were not only attempting the impossible, but something which was unnecessary

Would it not be better to ask the Prime Minister to receive a deputation, headed by the Lord Mayor, as it was of such great importance to the City that the traffic should flow unimpeded?

Buildings Approved

The Court agreed to permit the erection of a nine-storey building, with offices over ground-floor shops and with a basement car park, at 167 to 170 Fleet-street, 2 and 3 Red Lion-court and 2 Johnson's-court (R. Seifert and Partners, 28 Great Ormond-street, WC1), and they granted permission on an outline application for the erection of an office building on a site bounded by Salisbury-square, Dorset-rise, Hutton-street and Primrose-hill (Prudential Assurance Co. Ltd., 142 Holborn Bars, EC1).

The erection of an office building comprising basement, ground and four upper floors on the Greystoke Place School site (Ellis, Clarke and Gallannaugh, 37 Soho-square, W1) was also approved.

And so were drawings for a new building (offices, showrooms, stockrooms, a dental surgery, shops, licensed premises, and a basement car park) at Moor House, 49 to 53 and 61 to 71 Fore-street, 19-27 Fore Street-avenue, 1-15 Moorfields, and part of Fore-street and Moorfields (Lewis Solomon, Kaye and Partners, 5 Holborn Circus, EC1) and for a new office building sited on parts of 5 to 8 Bow Churchyard, 78 Watling-street, 58 to 60 Bread-street and Star-court (Ley, Colbeck and Partners, Palmerston House, 51 Bishopsgate, EC2).

High Volume of Building Work

Minister's Address to Operatives' Conference

SPEAKING at the annual conference of the National Federation of Building Trades Operatives in Troon, Ayrshire, on June 17, the Minister of Works, LORD JOHN HOPE, said that the highest of the objectives of the Government which it had in common with the Federation was the maintenance of the right balance between the load of work and the supply of labour in the industry. The Government was determined to fight against both unemployment and inflation. The volume of work in the industry was at present high and the Minister congratulated the industry on its great increase in output over the last two years.

Lord John referred to the importance of productivity as the key to a higher standard of living but said that the economy, including the building industry, had been showing some signs of strain lately. If the danger of weakening sterling abroad was to be avoided productivity must not be impeded because of shortages of labour and materials.

The Minister also mentioned the importance of technical development in increasing productivity and the increasing importance of teamwork which this led to. He said the existence of the Federation was an example of understanding co-operation.

The Minister paid a tribute to the building departments of the technical colleges whose task must grow in importance as techniques got more complicated. One of the difficulties was to foresee the skills which would be needed in the future, and he hoped there would be some further investigation which might be helpful in this connection.

Association of Building Technicians

Examinations for Clerks of Works

THE Association of Building Technicians announce that the following candidates, who sat at centres in the United Kingdom, were successful in their recent examination for the ABT clerk of works diploma:

R. H. Bailey (Beckenham, Kent), J. Breedon (Newark, Notts.), H. Crisp (Sunderland), D. Evans (Manchester), T. C. Godliman (Paddock Wood, Kent), J. Graham (Newcastle-upon-Tyne), J. Heath (Chard, Somerset), J. Lawson (Mansfield, Notts.), I. A. MacIntyre (Halewood, Lancs.), D. Macken (London), J. Maguire (Liverpool), E. H. Overton (King's Lynn), M. K. Ross (Westcliff, Essex), J. Swift (Liverpool) and G. J. Toomer (Ross-on-Wye).

Inquiries should be addressed to the General Secretary, Association of Building Technicians, 156 Waterloo-road, London, SE1.

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THE BUILDER LONDON MEASURED RATES

These prices for new building work in London normally appear in the first issue of each month only. The prices are inclusive of all allowances for National Insurance, Holidays with Pay and Public Holidays, Third Party Risk, Travelling Allowances and Guaranteed Week. They cover a profit of 10 per cent on the prime cost without any addition for establishment charges.

These rates do not include for Foremen and other preliminary items, such as office, sheds, plant and scaffolding, etc., and these must be added accordingly.

The basic cost of the labour and materials used in arriving at the rates has been derived from the 'Current Prices of Materials' published in *The Builder*.

The data given are copyright. While every endeavour is made to ensure accuracy, we do not hold ourselves responsible for any error that may occur.—EDITOR.

EXCAVATOR

All hand labour	*Per yd. cube*				
	Loose earth	*Firm soil*	*Stiff clay*	*Chalk and flints*	*Rock, etc., no blasting*
	s. d.	s. d.	s. d.	s. d.	s. d.
Surface excavation to shallow depths	8 3	10 3	11 9	17 10	46 0
Bulk do. or large trenches, etc., not exceeding 5 ft. deep ...	7 6	9 4	10 9	15 10	42 0
Trenches do. under 4 ft. 6 in. wide and do.	10 0	12 1	14 0	20 8	55 0
Pier holes and similar under 6 ft. square and do.	11 3	13 10	16 2	23 9	61 6
Additional throw for every 5 ft.:					
Bulk excavation	3 9	3 9	5 5	5 5	6 2
Trench ,, ...	5 0	5 0	6 8	6 8	7 8
Pier ,, ...	5 7	5 7	7 6	7 6	8 6
Return, fill and ram	5 2	5 2	6 8	6 8	8 2
Wheeling surplus n.e. 100 yds. run and depositing	7 2	8 0	8 0	8 0	9 0
Underpinning in trenches ...	13 4	18 6	21 6	30 9	—

		s. d.
Loading lorries and transporting to tip	Yd. cube	16 5
Basketing out and depositing	,,	10 0
Planking and strutting to sides of surface or basement trenches :		
Depth up to 5 ft.	Ft. sup.	6
,, ,, 10 ft.	,,	8
,, ,, 15 ft.	,,	9
Hardcore :		
Filled-in layers and consolidated	Yd. cube	22 3
do. 4 in. thick	Yd. sup.	3 3
do. 6 in. thick	,,	4 4

CONCRETER

	Basic yard cube rates			
	1 : 12	1:3:6	1:2:4	1:1½:3
Aggregate	1½ in. all-in	1½ in.	¾ in.	½ in.
Concrete in normal foundations : (minimum 6-ton cement loads)—	s. d.	s. d.	s. d.	s. d.
Portland cement standard specification	66 3	74 1	81 1	85 1
Portland cement rapid hardening...	67 6	75 11	83 7	88 5
Water-repellent cement	70 3	79 10	89 4	95 7

Add to above basis for :		s. d.
4 in. surface beds	Yd. sup.	7½
6 in. ,, ,, ...	,,	8½
(If above two items worked around mesh reinforcement, add 5d. per yd. *super.*)		
Foundations in underpinning in short lengths... ...	Yd. cube	16 4
Beds and flaunchings to drains	,,	8 2
Pier or stanchion foundations—small	,,	4 1
Sundry small items not exceeding 3 ft. cube in plinths, curbs, padstones, etc.	,,	21 6

REINFORCED CONCRETE

ADD to above 'Basic Yard Cube Rates'

Reinforced concrete including working around reinforcement between formwork and hoisting to normal levels :		s. d.
Foundations and similar	Yd. cube	5 5
Isolated stanchion or pier bases	,,	6 5
Walls not exceeding 6 in. thick	,,	26 8
,, ,, ,, 12 in. ,, ...	,,	18 8
Suspended floors or flat roofs 4½ in. thick	Yd. cube	21 6
,, ,, ,, ,, 6 in. ,, ...	,,	17 5
,, ,, ,, ,, 9 in. ,, ...	,,	14 10
(Beams attached to floors or flats, *add* 6/8 yd. cube)		
Isolated beams or lintels average 72 sectional inches ...	,,	32 3
Do. average 144 sectional inches	,,	24 1
Columns or stanchions average 72 sectional inches	,,	37 8
,, ,, ,, ,, 144 ,, ,,	,,	29 5
Staircases and landings, etc.	,,	56 1
Shell roofs average 3 in. thick, including labour forming curved surface	,,	133 3
Hollow tile floors :		
Hollow clay tiles 4 in. thick with 1 : 2 : 4 concrete ribs at 14 in. centres with filler tiles and 1½ in. fine concrete screed (excluding reinforcement and form work)	Yd. sup.	19 2
All as above but 6 in. thick clay tiles	,,	23 2
,, ,, ,, ,, 9 in. ,, ,, ,, ...	,,	32 3
Sundry items :		
2 in. concrete (1 : 2 : 4) blinding bed	Yd. sup.	5 0
Spade finish to concrete beds	,,	10
Trowel ,, ,, ,, ...	,,	1 10
Laying to falls and currents	,,	1 0
Hacking concrete by hand	,,	2 8
Hacking concrete by use of proprietary liquids ...	,,	1 7
Damp-proof membrane in three coats with sanded key	,,	4 10
⅜ in. Bitumen expansion joints 4 in. deep in floors ...	Yd. run	3 11

	Mild steel rods (round) cut, bent, hooked, wired and fixed complete (Ex. London Stock)			
	¼ in.	⅜ in.	½ in.	⅝ to 1 in.
Reinforcement :	s. d.	s. d.	s. d.	s. d.
Floors beams laid in only ...	88 6	79 4	73 8	70 3
,, ,, ,, wired into frames	100 7	90 0	85 10	80 3
Walls wired into frames	100 7	90 0	85 10	80 3
Columns wired into frames ...	100 7	90 0	85 10	80 3
Staircases wired into frames ...	102 11	92 4	88 2	82 7

Steel mesh fabric reinforcement :		s. d.
Laid in floors including laps and straight cutting and wiring, etc. :		
Weight 3·94 lb. per yd. sup.	Yd. sup.	4 3
,, 4·71 lb. ,, ,, ,, ...	,,	4 6
,, 9·32 lb. ,, ,, ,, ...	,,	8 4
Raking cutting worth 6 in. material cost per ft. run		
Circular cutting worth 9 in. material cost per ft. run.		
Formwork (Sawn) including strutting, easing and removal and average four times use of timber :		
Soffit of floors and flat roofs	Yd. sup.	16 9
Sloping soffits of stairs	,,	22 10
Barrel-vault soffits of floors and roofs	,,	21 4
Vertical sides of walls	,,	16 0
Battering sides of walls	,,	20 10
Columns	Ft. sup.	2 5
Lintels and beams	,,	2 7
Staircase strings cut to tread and riser	Ft. run	3 7
Edges of concrete floors, etc., up to 12 in. deep per inch in height	,,	2¼
Rebates or similar per inch girth up to 6 in. girth...	,,	2½
Raking cutting	,,	8½
Extra cost for wrought shuttering and labour rubbing down to leave fair face on concrete ...	Yd. sup.	2 7
Pre-cast Concrete (1 : 2 : 4) including fair face :		
4½ in. x 6 in. reinforced lintels	Ft. run	3 0
9 in. x 6 in. ,, ,, ...	,,	5 3
9 in. x 9 in. ,, ,, ...	,,	8 7
Steel Formwork :		
Steel shuttering forms with patent expanding floor centres and telescopic props not less than four times use on each job with continuous use ...	Yd. sup.	11 6

Partitions : (Minimum 100 yd. super)	*Yd. super rate*			
	2 in.	*3 in.*	*4 in.*	*6 in.*
Clinker concrete slab partitions in cement mortar	s. d. 9 8	s. d. 12 2	s. d. 14 2	s. d. —
Cranham terra cotta slab partitions in cement mortar	13 2	16 2	19 1	—
Moler partition block partitions in cement mortar	18 2	23 3	25 11	—
Thermalite-Ytong partition blocks in cement mortar	—	15 8	19 4	27 7

Cuttings :

Raking cutting and waste = ¼ of ft. sup. rate
Circular „ „ „ = ¼ of ft. sup. rate
Cutting around openings = ¼ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

BRICKLAYER

	Yd. super rates			
	Plain flettons	*Rough stocks*	*Second stocks*	*Blue wire-cuts*
Brickwork in cement mortar (1 : 3) reduced to one brick thick	s. d. 37 0	s. d. 50 3	s. d. 59 11	s. d. 92 0
Deduct if in 1 : 1 : 6 cement-lime mortar	10	10	10	10
Add if in :				
Filling in openings	5 8	5 8	5 11	7 2
Backing to masonry	2 10	2 10	3 0	3 8
Building overhand	1 10	1 10	1 11	2 2
Raising on existing work	2 10	2 10	3 0	3 8
Circular on plan to quick sweep ...	5 6	5 6	5 9	6 10
Small detached piers, plinths, etc.	8 4	8 4	8 9	10 5
Underpinning	5 6	5 6	5 10	6 11
Brick-on-edge walls	12 8	17 8	20 8	—
Half-brick sleeper walls honeycombed	13 3	18 1	—	—
Half-brick walls	20 9	28 6	33 2	50 6
do. with fair face and pointing both sides as work proceeds	23 11	—	36 8	54 6
One-brick wall with fair face and pointing both sides as work proceeds	42 3	—	64 10	97 10
11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup.	45 2	—	70 0	—

Sundry items :		s. d.
Horizontal double slate damp-proof course ...	Ft. sup.	3 4
Vertical „ „ „ „ ...	„	4 1
Hessian-base bitumen damp-proof course	„	1 6
Levelling and preparing for raising on	„	1 0½
Cutting, toothing and bonding new to old	„	3 8
Wedging and pinning with slates in underpinning ...	„	5 2
Rough cutting	„	6
Cutting and fitting brickwork around steel	„	6
Bed and point frame one side	Ft. run	4
Rough cutting squint or birdsmouth	„	6½
Labour plumbing angles on faced work	„	2½
Rake out and point to lead flashing	„	7½
„ „ „ „ stepped flashing	„	10½
Cutting groove for skirting and point	„	1 7
Shallow chases for small pipes and conduit	„	1 9
Metal reinforcement 24 gauge 2½ in. wide	„	4½

Faced work : (Flemish bond) :

Add or deduct for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work	Yd. sup.	9
do. to half-brick wall in stretcher bond	„	6½
Add for extra labour to each side in facings and pointing as work proceeds	„	3 2
do. butt joints raked out and pointed with special mortar	„	6 3

If built in English bond, add 12½ per cent to above items.

Labours :

Fair cutting	Ft. run	1 1½
Fair circular cutting	„	1 4
Fair squint or birdsmouth cutting	„	1 9

Copings :		*9 in. wall*	*14 in. wall*
Brick-on-edge coping in flettons finished fair and pointing as work proceeds ...	Ft. run	s. d. 2 4	s. d. 3 1
Add for every increase by 10s. per 1,000 in cost of superior bricks	„	1	1½
Add for two courses of roofing tiles under and cement weather fillets on both sides	„	3 7	4 4
Cills :			
Two courses of roofing tiles laid breaking joint in cement mortar, set weathering and pointing ...	Ft. run	3 7	
Arches :			
Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing	Ft. run	3 7	
Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately)	Ft. sup.	9 3	

CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

PAVIOR

	Yd. super rates			
	½ in.	*¾ in.*	*1 in.*	*1¼ in.*
Cement screed (1 : 3) to receive pavings	s. d. 4 5	s. d. 5 3	s. d. 6 1	s. d. 6 11

Add to above for :		d.
Trowelling smooth	Yd. sup.	7
Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls	„	4

	Yd. super rates			
	1 in.	*1¼ in.*	*1½ in.*	*2 in.*
Granolithic paving (1 : 2½) laid on concrete	s. d. 8 9	s. d. 9 11	s. d. 12 0	s. d. 13 2

Add to above for :		s. d.
Narrow widths or small quantities—add 25 per cent to plain surfaces.		
Surface hardening with three coats of silicate of soda	Yd. sup.	1 5
Carborundum finish with 2 lb. per yd. sup. trowelled in	„	3 0
¾ in. skirting 5 in. high covered at bottom and fair top edge	Ft. run	2 9
Mitres and ends—7d. each.		
Composition flooring ½ in. thick	Yd. sup.	18 0
Terrazzo paving ⅜ in. thick	„	45 0
Rubber flooring ¼ in. thick	„	65 0

ASPHALTER

		Mastic BSS 988	*Natural rock BSS 1162*
Asphalt roofing :		s. d.	s. d.
¾ in. flat to falls in two thicknesses on felt underlay on prepared screed	Yd. sup.	14 3	21 0
do. in small quantities or narrow widths	Ft. sup.	2 3	2 6
6 in. high skirting with angle fillet and splayed edge at top	Ft. run	2 6	3 1
External angles on do.	No.	7	7
Internal angles on do.	„	7	7

		Mastic BSS 1097	*Natural rock BSS 1418*
Asphalt Damp-proof Course and Tanking :		s. d.	s. d.
Vertical damp-proof course in 2 thicknesses	Yd. sup.	22 0	28 0
do. in narrow widths	Ft. sup.	3 0	3 7
¾ in. Horizontal damp-proof course in two thicknesses	Yd. sup.	14 10	18 3
do. in narrow widths	Ft. sup.	2 3	2 6
Vertical tanking in three thicknesses ...	Yd. sup.	31 3	36 9
1½ in. Horizontal do. in three thicknesses	„	25 0	29 2
Labour double angle fillet	Ft. run	1 8	1 8

DRAINLAYER

	Per yd. run Depth of trench				
	2 ft.	3 ft.	4 ft.	5 ft.	10 ft.
	s. d.	s. d.	s. d.	s. d.	s. d.
Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rates)	8 3	21 7	28 10	36 0	106 3

	Per yd. run		
	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
Concrete (1: 6–1½ in agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides	8 0	8 10	11 3
do. but 6 in. bed and do.	9 7	11 3	13 7
do. but 4 in. bed and surround to pipe	11 7	14 5	19 0
do. but 6 in. bed and surround to pipe	15 7	18 10	23 9
	Per ft. run		
Salt glazed drain pipes laid and jointed in trench (Minimum two-ton loads):	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
'Seconds'	2 8½	3 10	6 1
'Best'	2 11	4 2½	6 9½
'Best Tested'	3 7¼	5 1¾	8 7
'British Standard'	3 1½	4 5½	7 3½
'British Standard Tested'	3 8¾	5 5	8 11
Extra for bends 'Best' quality	4 0	5 10	16 11
Extra for junctions 'Best' quality	7 0	9 11	21 4
Cast-iron drain pipes to BSS 437 laid and jointed with molten lead in trench	17 0	25 0	—
Extra for:			
Short lengths	4 0	5 1	—
Bends and extra joints	25 8	68 10	—
Junctions and do.	51 9	118 0	—
Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint	45 2	—	—
Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ...	70 3	—	—
Cast-iron inspection fittings with single branch fitting one side	164 0	—	—

	Per ft. run		
	3 in.	4 in.	6 in.
	s. d.	s. d.	s. d.
Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250)	2 6	3 3	6 2

		4 in.	6 in.
Manhole items:		s. d.	s. d.
Brown glazed stoneware straight half-round channels	Each	5 4	7 8
do. ordinary channel bends	,,	11 10	16 11
Three-quarter section curved channel bends with splayed ends	,,	15 0	21 6
Cast-iron heavy galvanised steps	Each		13 0
Bedding and sealing medium weight manhole covers and frames (cost of cover to add)	,,		10 0
do. heavy road covers and frames	,,		13 3

MASON

		Per ft. cube		
		Bath	Portland	York
Stone and all labours fixed in:		s. d.	s. d.	s. d.
Ashlar average 6¾ in. on bed ...	Ft. sup.	31 6	35 9	38 6
Moulded string course 9 in. x 6 in.	Ft. run	27 0	29 8	32 6
Moulded cornice 18 in. x 9 in. ...	,,	68 3	74 3	79 3
Weathered and throated cills:				
9 in. x 3 in.	,,	17 0	19 3	19 9
12 in. x 6 in.	,,	34 0	36 3	38 6
Weathered and throated copings:				
12 in. x 3 in.	,,	18 6	20 0	20 7
14 in. x 6 in.	,,	37 6	41 3	43 6
Plinth rubbed top and face size:				
4½ in. x 9 in.	,,	18 8	21 0	19 3
Plain steps, size 12 in. x 6 in. ...	,,	—	—	34 3
,, ,, ,, 14 in. x 2 in. ...	,,	—	—	16 0
Riser, size 2 in. x 4 in. ...	,,	—	—	7 6
2 in. Sawn paving edges squared in random sizes	Yd. sup.	—	—	93 6
Supplied only:				
Templates and cover stones coped edges	Ft. cube	—	—	29 9

ROOFER

	Yd. sup.
	s. d.
Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS 747, covered with limestone or granite chippings n.e. ¼ in. thick	10 0
All as above but in three layers, the first and second layers in felt 45 lb.	13 9

	Steel Tees at	
	2 ft. 0½ in. centres	4 ft. 0½ in. centres
2 in. compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking:	s. d.	s. d.
Areas of 50–100 yds. sup.	27 8	21 4
,, 101–250 ,, ...	26 10	20 9
,, 251–750 ,, ...	26 0	20 3
,, Over 750 ,, ...	25 2	19 4
If 16G steel tees are used—Add to above ...	1 5½	9

Welsh Slating		Per square		
		16in.x8in.	18in.x10in.	20in.x10in.
		s. d.	s. d.	s. d.
Laid with 3 in. lap and 2 zinc nails each slate		380 0	408 0	499 0
Additional labours:				
Top edge cutting ...	Ft. run	9	9	9
Square abutment do.	,,	9	9	9
Double course at eaves...	,,	1 3	1 3	1 3
Raking, cutting and waste	,,	11	11	11
1½ in. x ¾ in. slate battening for last	Per sq.	36 9	33 0	29 3

Roof Tiling		Per square		
		Berkshire hand-made	Stafford machine made	Concrete Tiles
		s. d.	s. d.	s. d.
Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails		264 0	253 0	163 3
1 in. x ¾ in. tile battening for last		39 6	39 6	39 6
Additional labours:				
Top edge cutting	Ft. run	9	9	9
Square abutments do. ...	,,	9	9	9
Raking cutting to hips ...	,,	11	11	11
Eaves course	,,	11	11	11
Half-round ridge and hip tiles	,,	2 11	2 11	2 11

CARPENTER AND JOINER

	Ft. cube			
	Plates	Joists	Rafters & Partitions	Roof trusses
	s. d.	s. d.	s. d.	s. d.
Softwood carcassing, including all waste, nails, hoisting and fixing	17 1	19 10	22 10	27 4

	Per square		
	¾ in.	1 in.	1¼ in.
Boarding and Flooring: (Softwood):	s. d.	s. d.	s. d.
Rough boarding to flats and roof ...	125 0	160 0	194 9
Softwood plain edge flooring cleaned off	155 0	173 6	211 0
Tongued and grooved flooring cleaned off	169 0	195 4	237 0

		s. d.
Extra for 2 in. x 3 in. average firrings	Per sq.	81 7
Herringbone strutting to 2 in. x 8 in. joists	Ft. run	1 10
1 in. gutter boarding and bearers	Ft. sup.	3 9
Raking cutting and waste on 1 in. flooring	Ft. run	9
Composition Boards, etc.:		
¼ in. hardboard to BS 1142 fixed to vertical battens	Yd. sup.	6 9
½ in. insulation board to BS 1142 do. do.	,,	6 11
1 in. woodwool slabs fixed to flat or sloping soffits	,,	9 7
2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super	,,	14 8
¼ in. flat asbestos sheeting fixed vertically	,,	11 9

Wood Block Flooring:

		s. d.
1 in. nominal West African mahogany flooring laid herringbone pattern in mastic	Yd. sup.	34 6
1 in. do. Agba	,,	34 6
1 in. do. Sapele	,,	36 3
1 in. do. Beech	,,	39 0
1 in. do. Rhodesian Teak	,,	52 0

Extra for preparing and polishing 2/3 yd. sup.

	Sectional area		
	n.e. 4 in.	4–6 in.	ex. 6 in.
Skirtings:	s. d.	s. d.	s. d.
Softwood skirting with rounded or moulded edge, planted on including all labours in short lengths, mitres, etc., per in. in sectional area	3¾	3¼	2¾

Labours over 6 in.—Mitres = 1 ft. run. Return mould ends = 1 ft. 6 in. run
Sawn grounds nailed 3½d. ft. run. If plugged + 7d. ft. run.

	Ft. super	
	Large sqrs.	Small sqrs.
Sashes and Frames: (Softwood):	s. d.	s. d.
1½ in. rebated, rounded or moulded fixed	3 7	5 9
2 in. ,, ,, ,, ,, ...	4 0	6 2
Add for hanging on butts ... ... each	2 9	2 9
Double-hung sashes and frames with oak cills, purpose-made and not less than 1 doz. in each order:		
Quantities under 1 doz.—add up to ½ according to quantity. (Average size 4 ft. x 5 ft.)	10 8	14 6

Extra cost of boxed mullions 1s. ft. sup.
Extra for hanging sashes with lines, weights and axle pulleys 47s. each.

	Ft. super			
	1¼ in.	1½ in.	1¾ in.	2 in.
Doors: (All-purpose-made) (Softwood)	s. d.	s. d.	s. d.	s. d.
Softwood skeleton framed with hardboard flush both sides (standard internal pattern)	3 7	4 0	4 5	4 10
Framed, ledged and braced	—	5 1	6 2	6 4
Four panel square framed both sides	4 10	5 7	6 7	6 10
Add for each side moulded on last...	6	6	6	6
do. flush framed	1 0	1 1	1 3	1 3
do. bead and butt do.	1 3	1 4	1 6	1 6
do. bolection moulded do.	1 6	1 6	1 6	1 6
do. raised and fielded do.	—	2 4	2 4	2 4

Rebated and beaded meeting stile 4d. ft. run.
Dwarf doors add up to 50 per cent according to size.

	Sectional area		
	n.e. 6in.	6-12 in.	ex. 12in.
Window and Door Linings and Frames:	s. d.	s. d.	s. d.
Softwood linings per inch of sectional area	4½	4	3½
Add for cross-tongueing	—	1	¾
Frames, including rebating and once moulded or equivalent of two run labours, per sectional inch	4	3½	3

Transomes and cills plus 10 per cent on frames.
Additional run labours plus 1½d. per ft. run.

	Per ft. run			
	Sectional area			
	1 in.	2 in.	4 in.	6 in.
Softwood Bearers, Fillets and Mouldings, etc.:	s. d.	s. d.	s. d.	s. d.
Wrot grounds, bearers, fillets, etc.	4½	7	11	1 3
Mouldings, picture rails, architraves, etc.	5	7½	11½	1 4
Framed legs and bearers or similar	9	11	1 4	1 10
Glazing beads, mitred and bradded	6	8½	—	—
Add for plugging	6	6	6	6
Add for brass cups and screws ...	2½	2½	2½	2½

	Thickness			
	¾ in.	1 in.	1¼ in.	1½ in.
Shelving (Softwood):	s. d.	s. d.	s. d.	s. d.
Slat shelving 2 in. wide spaced 1 in. between ... ... Ft. sup.	2 0	2 3	2 8	3 1
9 in. shelving ... ... Ft. run	2 0	2 4	2 10	3 6
Shelving over 9 in. wide ... Ft. sup.	2 7	2 11	3 7	4 2

1 in. x 2 in. chamfered bearers in short lengths, plugged, each 2s. 3d.

	Ft. super	
	1 in. treads	1¼ in. treads
Staircases (Softwood):	s. d.	s. d.
Treads and risers with moulded nosings, glued, blocked and bracketed on carriages	6 3	7 0
Cross-tongued winders	8 3	9 4

		s. d.
Strings, framed	Ft. run	4 9
Housings for treads and risers	Each	3 0
1 in. x 1 in. sq. balusters framed each end on rake ...	,,	4 1
3½ in. x 3½ in. sq. framed newel	,,	5 2
Mahogany handrail, average 3 in. x 3 in.	Ft. run	8 10
,, ,, ramped	,,	26 0

FIXING ONLY IRONMONGERY

All to Softwood:	Each s. d.		Each s. d.
Barrel bolts	1 9	Rim locks	5 2
Flush bolts	6 3	Mortice locks	11 0
Sash fasteners	3 4	Overhead door springs...	14 6
Casement fasteners ...	2 3	Patent floor springs and oil	36 3
Cupboard locks	5 0		

FOUNDER AND SMITH

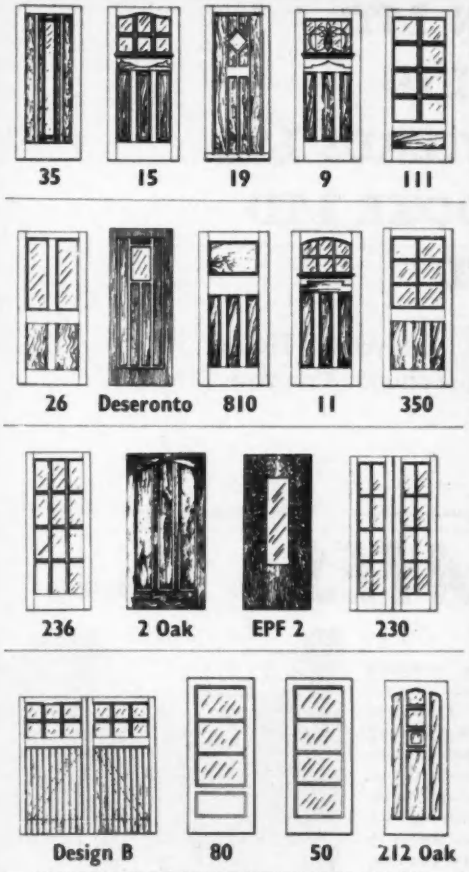
		s. d.
Fabricated steelwork of basis section including hoisting and fixing at various levels:		
Rolled steel joists	per cwt.	90 0
Compound girders	,,	97 0
Stanchions	,,	102 3
Compound stanchions	,,	108 0
In roof work—trusses and purlins	,,	122 0
(Average prices, not for awkward work)		
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	,,	147 6
Wrot iron framed cat ladders	,,	148 0
	to	168 0

PLUMBER

		Per ft. run		
		3 in.	4 in.	5 in.
Cast iron rainwater goods: (Under 5 cwt. lots):		s. d.	s. d.	s. d.
Half-round gutter jointed in red lead and bolted and fixed with iron brackets		3 2	3 9	4 7
Extra for stop ends	each	2 5	3 0	3 11
do. angles or outlets	,,	5 10	6 2	7 3
O.G. gutter of ⅛ in. metal fixed as above		3 8	4 2	4 11
Extra for stop ends	each	2 9	3 4	4 4
do. angles or outlets	,,	6 7	6 9	8 1
		2 in.	3 in.	4 in.
Rainwater pipe jointed in red lead and tow fixed to brickwork with pipe nails and distance pieces: ⅛ in. metal		4 3	4 10	6 3
Extra for shoes	each	5 0	6 10	9 2
do. bends	,,	5 9	8 1	10 4
do. junctions	,,	7 9	11 0	14 1
Cast iron soil and waste pipes: (Under 5 cwt. lots):		2 in.	3 in.	4 in.
Soil, waste or ventilating pipes with caulked joints fixed to brickwork with pipe nails and distance pieces: 13/64 in. metal		6 2	7 3	9 6
Extra for bends	each	13 7	16 2	20 2
do. junctions	,,	16 10	23 3	29 2
do. oval access door to any fitting	,,	16 6	16 6	21 3
Extra cost for type 'E' holderbat fixing and cutting and pinning to brickwork	ft. run	1 6	1 7	1 7½

BRYCE WHITE STOCK

SCORES OF DOORS



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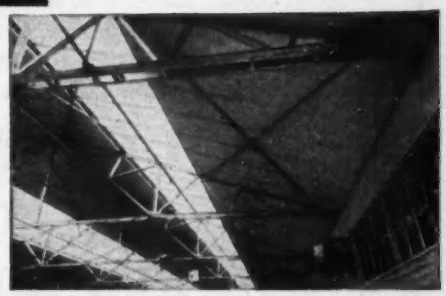

UNITEX
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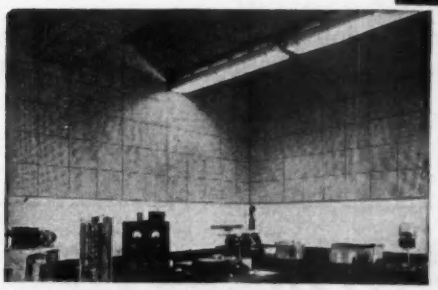

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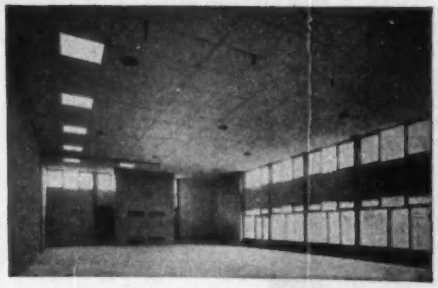

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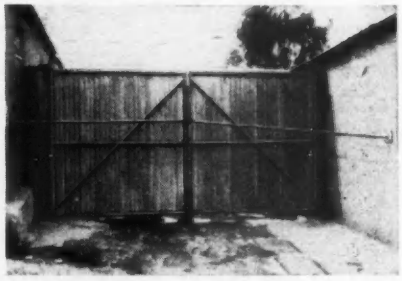

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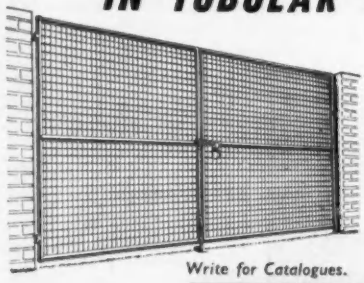

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	Soakers	Flats	Gutters, valleys, etc.	Flashings	Stepped Flashings
External leadwork: (Over 1 ton): Milled lead and labour in per cwt.	s. d. 147 4	s. d. 171 2	s. d. 182 10	s. d. 188 10	s. d. 199 0

Labours, etc.: Double welt	ft. run	1 0
Copper nailing: Open	,,	7
Close	,,	1 0
Soldered seam	,,	6 7

		2 in. x 10 lb.	3 in. x 15 lb.	4 in. x 19 lb.
Lead pipes: (Over 1 ton):		s. d.	s. d.	s. d.
Soil, waste and ventilating pipes, fixed to walls with plain lead tacks and brass screws	per ft.	11 1	14 7	19 1
Extra for: Lengths under 4 ft. ...	,,	3 0	3 6	4 6
Bends	No.	12 6	23 9	24 10
Wiped soldered joints	,,	20 0	29 7	33 7
,, branch joints	,,	24 4	35 0	39 3

	Per ft. run					
	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Lead pipes including running joints:	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Main in trench ...	3 6	5 3	7 9	9 9	12 5	17 3
do. fixed with hooks	4 2	6 1	9 1	11 3	14 1	19 3
Service and do. ...	3 6	5 2	7 2	8 7	10 10	14 0
Waste and do. ...	2 9	4 0	5 9	6 10	8 8	11 4
Extra for lengths under 4 ft. ...	9	1 0	1 6	1 9	2 0	2 7
Soldered stop ends ... ... No.	2 6	3 0	3 9	4 6	5 2	6 8
do. joints to fittings ... ,,	6 6	9 2	11 0	13 4	16 3	19 9
do. branch joints... ... ,,	7 2	10 1	12 2	14 10	17 11	21 8
Brasswork:						
Union with red lead joint to iron and soldered joint to lead ... ... ,,	12 0	14 10	18 6	22 9	27 10	40 6
Stop-cock and soldered joints... ... ,,	21 0	30 8	43 7	70 0	89 6	167 5
Bib-cock do. ,,	18 6	24 9	—	—	—	—
Ball-valve do. ,,	18 0	30 4	43 5	71 7	89 6	—
Steel tubing:						
Galvanised tubing Class C laid in trench	2 4	2 6	2 10	4 1	5 6	6 6
do. Class B fixed to walls, etc. ...	2 7	3 0	3 4	4 5	6 2	7 1
Extra for bends No.	5 0	5 9	7 7	9 10	11 8	17 2
Tees ,,	5 8	6 9	8 2	10 10	12 10	18 8
Red lead joints ,,	3 6	3 9	4 1	4 7	5 1	5 7
Copper tubes and fittings: gauge	19	19	18	18	18	17
Tubes and fixing to walls	2 7	3 4	4 6	5 5	6 4	9 2
Extra for lengths under 4 ft. ...	7	9	11	1 0	1 3	1 6
Brass capillary type fittings:						
Couplings—copper to copper ...	3 8	4 4	6 9	8 9	11 2	15 3
Bends— do. ...	5 10	7 1	8 11	11 7	17 2	32 3
Tees— do. ...	8 7	9 11	14 2	19 2	26 3	36 4
Stop cocks	23 7	33 1	60 2	101 2	152 3	250 4
Tank connectors ...	4 9	5 4	8 1	10 2	14 3	18 4

PLASTERER

		s. d.
Expanded metal lathing ⅜ in. mesh 24 gauge ... (not including hangers for suspended work)	Yd. sup.	7 9
Lime Plastering: Render, float and set	,,	9 5
Sirapite Plastering: Render and set	,,	7 2
Portland Cement: Plain face trowelled smooth ...	,,	8 9
Keenes: Render in cement and lime and set in Keenes	Yd. sup.	9 11
Extra for dubbing out ¼ in. thick 1/11, ½ in. thick 3/4 ⅜ in. Plasterboard and setting coat in Sirapite ...	,,	8 11

Narrow widths: Up to 3 in. wide add 100 per cent. Do. 6 in. do. 75 per cent. Do. 6 in. to 12 in., add 33⅓ per cent.

Labours: Arris 4½d. Fair edge 6½d. Quirk 9½d.

Plaster Moulded Cornices: 6 in. girth and under ...	Ft. run	3 1
Over 6 in. girth, add 4d. per in.		
Tyrolean Rendering with three coat Cullamix finishing	Yd. sup.	11 8
Wall Tiling: 6 in. x 6 in. white glazed ¼ in. thick ...	,,	45 0
Extra for rounded angle or birdsbeak	Ft. run	4
do. rounded edge tile	,,	5

GLAZIER

	Wood sashes with beads or putty
Clear sheet glass ordinary quality:	s. d.
18 oz.	1 4¼
24 oz.	1 7
26 oz.	1 9½
32 oz.	2 2
Obscured glass:	
⅛ in. Figured rolled White group 1	1 9
,, ,, ,, group 2	2 0¾
,, ,, Standard tints	2 6¾
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and luminating group 3	2 2½
¼ in. Wired Cast	2 6
¼ in. Georgian Wired Cast	2 6¼
¼ in. Polished Plate Glass, G.G. Quality:	
In plates not exceeding 2 ft. sup.	6 8½
,, ,, ,, 5 ft. sup.	7 8½
,, ,, ,, 45 ft. sup.	8 10½
,, ,, ,, 100 ft. sup.	9 5¼
Extra on all above:	
For glazing with screw beads ft. sup.	5½
(Excepting polished plate over 12 ft. super on which no extra is charged)	
For glazing with metal sashes with putty	1
Glazing bedded in washleather ... ... Ft. run	8½

PAINTER

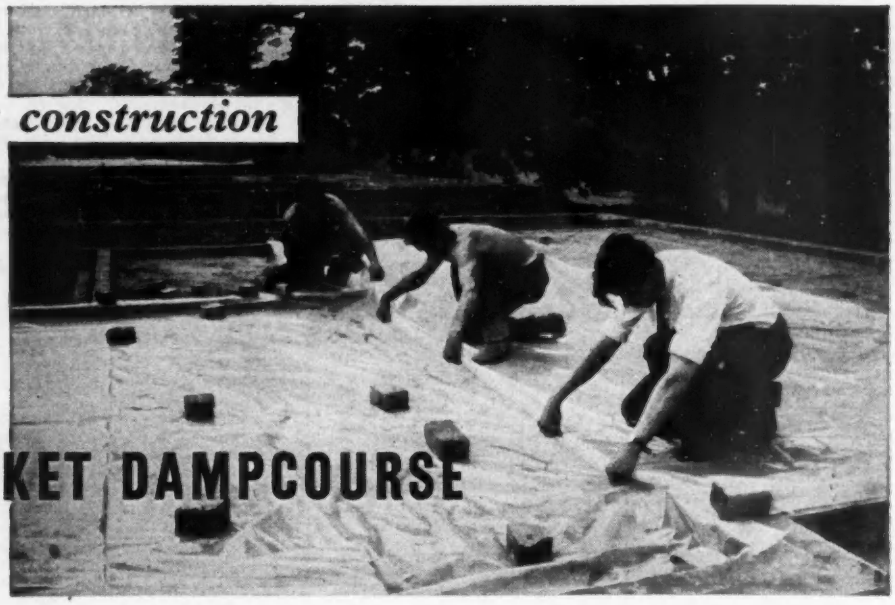
		s. d.
Limewhiting: Prepare and two coats on brick ...	Yd. sup.	1 2
Whitening: Prepare and two coats on plaster ...	,,	1 5
Washable distemper: Prepare and two coats on plaster	,,	1 11
Emulsion paints: Prepare and two coats on plaster ...	,,	3 1

Painting with oil colours:	Yd. super 1 coat	2 coats	3 coats
	s. d.	s. d.	s. d.
Prepare and paint on plaster	2 3	4 3	6 4
On Steel:			
Plain surfaces	1 10	3 7	5 5
Roof trusses...	2 4	4 7	6 11
Metal casements divided into squares ...	3 4	6 8	10 0
do. divided into large squares ...	2 7	5 0	7 6
Opening edges ... ... Each	8	1 3	1 10
Small pipe ... ... Yd. run	6	1 0	1 5
Rainwater pipe ... ... ,,	1 0	1 11	2 9
Gutter ... ... ,,	1 4	2 6	3 8

	Knot prime and stop	Add for each extra coat
On Woodwork:	s. d.	s. d.
General surfaces ... ... Yd. sup.	2 10	2 3
On work not exceeding 3 in. girth ... Yd. run	4½	3½
Add to last for every additional 3 in. in girth	3¼	2¾
Sash squares on one side ... ... Doz.	5 6	4 6
Large ,, ,, ,, ... ,,	8 6	8 0
Opening edges ... ... No.	9	8

		s. d.
Oiling Hardwood: Two coats with linseed oil... ...	Yd. sup.	1 4
Creosote: Two coats on woodwork	,,	1 7
Polishing—New Work:		
Staining and wax polishing hardwood	Ft. sup.	1 1
Staining, bodying in and full french polishing on hardwood	,,	2 6
Old Work previously polished:		
Preparing old work and repolishing	,,	1 2
Stripping, preparing and repolishing	,,	3 1
Papering:		
Preparing, sizing and hanging lining paper	per piece	10 7
do. do. Wallpaper, p.c. 10s.	,,	19 8

In house-raft construction



specify

BCL BLANKET DAMPCOURSE

BCL Blanket Dampcourse (0·005″ thick BCL polythene film) is the answer to the problems of moisture penetration into concrete house-rafts. It stops water rising through the raft into the house and, by preventing water-absorption by the concrete, removes the danger of the raft being damaged by frost or sulphate.

BCL Blanket Dampcourse is

—**waterproof**—virtually eliminates moisture-absorption by the concrete;

—**rotproof and chemically inert**—will not break down or lose efficiency;

—**tough and flexible**—will not easily break or tear when being laid;

—**very easy to handle**—the film is light in weight and is simply laid over the fill before the concrete is placed;

—**cheap**—material and labour-costs are very low.

Geo. Wimpey & Co. Ltd. make extensive use of BCL Blanket Dampcourse. This picture, taken with their kind permission, shows the film laid in position before the concrete is placed.

For further information, send today for a copy of the free illustrated booklet, "BCL Blanket Dampcourse", which incorporates a report on the tests carried out with this material by the Industrial Research Laboratories of the City of Birmingham Public Works Department.

BRITISH CELLOPHANE LIMITED* PLASTIC FILMS DIVISION

HENRIETTA HOUSE, 9 HENRIETTA PLACE, LONDON, W.1. MUSEUM 8311

*a member of the Courtaulds group of companies

To: BRITISH CELLOPHANE LIMITED, Plastic Films Division,
Henrietta House, 9 Henrietta Place, London, W.1.

Please send me, free of charge and without obligation, your booklet "BCL Blanket Dampcourse"..... Please tick as appropriate

Please ask your representative to call.....

NAME.....

ADDRESS.....

B1P.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	"	1	3	8
Washed Sand	"	1	6	9
¾ in. Shingle	"	1	4	3
¾ in. Broken Brick	"	1	0	9
Pan Breeze	"	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	"	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	"	6	0	6
1 to 6 tons do. site	"	6	12	6

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colorcrete in 6-ton lots	"	8	10	0

Other colours according to colour.

In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.

White Portland Cement	"	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)

Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	"	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	"	14	3	6
Mild Stocks (Kiln Burnt)	"	10	5	0
Mild Stocks	"	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	"	6	2	0
Cellular Commons	"	6	2	0
Keyed do.	"	6	4	0
Rustics	"	8	2	0
Cellular Rustics	"	8	2	0
Single Bullnose Commons	"	8	4	6
Sandfaced	"	9	2	0
Tuscans	"	9	17	6
Saxons	"	10	5	0
Golden Buffs	"	10	12	0
Dapple Light Facings	"	10	19	6
Heather Facings	"	10	15	0
Best Blue Pressed Staffs (London stations)	"	30	12	6
do. do. (London sites)	"	30	14	0
do. Bullnose (London stations)	"	31	11	6
do. do. (London sites)	"	31	13	0
Blue Wire Cuts (London stations)	"	27	5	0
do. do. (London sites)	"	27	6	6
Midhurst Lime Bricks (London sites)	"	11	0	6
Uxbridge Whites (London sites)	"	10	19	0
Special Purpose Sandlime Bricks (London sites)	"	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	"	30	12	3
2½ in. (London sites)	"	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	"	37	5	3
2½ in. Moler Flue Bricks (London sites)	"	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	"	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	"	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	"	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	"	19	13	0
Rubber Bricks for gauged arches (London sites)	"	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

HOLLOW CLAY PARTITION BLOCKS (Keyed)

Minimum lorry loads

		£	s.	d.
*2½ in. 140 yds.	per yd. sup.		4	5
BUILDING BLOCKS (Keyed)				
*3 in. (6 cavity) 110 yds.	"		5	5
*4 in. (6 cavity) 90 yds.	"		6	10
6 in. (8¾ in. × 5¾ in.) 1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

CLINKER CONCRETE				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	"		4	4
3 in. 75 yds.	"		5	3
4 in. 55 yds.	"		6	5
CRANHAM TERRA COTTA				
2 in.	"		6	9
2½ in.	"		7	9
3 in. Load bearing quality	"		8	9
4 in. do. do.	"		10	9
MOLER PARTITION BLOCKS				
2 in. 150 yds.	"		11	3
2½ in. 120 yds.	"		14	0
3 in. 100 yds.	"		15	0
4 in. 90 yds.	"		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	"		6	5
3 in. 65 yds.	"		7	5
4 in. 50 yds.	"		9	4
4½ in. 44 yds.	"		10	2
6 in. 33 yds.	"		13	5
THERMALITE-YTONG PARTITION BLOCKS				
2½ in. 144 yds.	"		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	"		11	0
5 in. 72 yds.	"		13	9
6 in. 60 yds.	"		16	6
8½ in. 42 yds.	"	1	3	8
FLOOR BLOCKS AND FILLER TILES				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	"	36	10	0
5 in.	"	43	15	0
6 in.	"	49	19	0
7 in.	"	61	8	0
8 in.	"	71	19	0
9 in.	"	79	3	0
10 in.	"	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ¾ in.	"	42	15	0
12 in. × 4 in. × ¾ in.	"	73	15	0
10 in. × 5 in. × ¾ in.	"	73	15	0

A NEW Electrolux FOR NEW PROPERTY...

...at a new low price

Model MB.16 built-in refrigerator is an entirely new development from Electrolux. Designed with builders and estate development in mind, it combines a new lightness in weight, "easy-to-build-in" dimensions and a generous storage capacity at a new low price, yet retains the quality and reliability which have made Electrolux world famous.

This refrigerator can be built into kitchen fitments at waist height, or at floor level beneath a draining board or work-top unit of British Standard Specification. Being a fixture, the MB.16 can be included in the mortgage. It will add distinction to any kitchen, and provide the most up-to-date and convenient method of safe food storage.

MODEL MB.16

* External finish in WHITE or CREAM
* Can be supplied with left or right hand door
* Permanently silent operation by electricity or gas
* No motor, no vibration
* Cooling unit guaranteed 5 years

Post to: Electrolux Ltd., Contracts Dept., 153/5 Regent St., London, W1

Please send me full details of model MB.16 Built-in Refrigerator

NAME.....

L.7

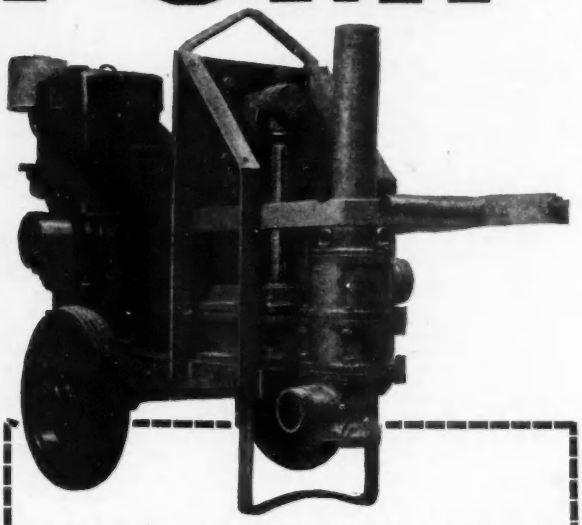
ADDRESS.....

THE NEW

JOHNSON

3 in. — Mk. 4

MUD PUMP



Maintaining our policy of continued improvement and real value for money we now present the JOHNSON 3 inch Mk. 4 Mud Pump

- Improved efficiency — with greater mobility.
- More compact — easier to move over bad ground.
- Ideal in confined spaces — direction of elbows can be adjusted to suit site conditions.
- Better balance for towing — no dangerous projections.
- A new 'high' in heads and capacity — 27 ft. suction — 3,600 g.p.h.
- Easy-clean ball valves — no choke —no foot valve.
- Longer diaphragm life.

Write or 'phone for a demonstration on your site.

JOHNSON QUALITY PAYS

C. H. JOHNSON (Machinery) LIMITED, STOCKPORT, CHESHIRE ENGLAND

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FOR DUMPERS, MUD PUMPS, CENTRIFUGAL PUMPS, POWER RAMMERS, POKER VIBRATORS, SCREED VIBRATORS, FIXED AND MOBILE CONVEYORS

London Sales and Service Depot: 38-44 Lower Richmond Road, S.W.14. Tel.: PROspect 7671

Scottish Sales and Service Depot: 53 Arrowsmith Avenue, Glasgow, W.3. Tel.: Scotsteun 6933

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons		Over 100 pieces Under 2 tons		Under 100 pieces Under 2 tons	
Best Quality ...	−10%		+5%		+12½%	
BSS Best Quality...	+10%	−10%	+10%	+5%	+10%	+12½%
Tested Quality ...	+37½%	−10%	+37½%	+5%	+37½%	+12½%
BSS Tested Quality	+47½%	−10%	+47½%	+5%	+47½%	+12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

				£	s.	d.
Softwood						
Joinery quality		Ex Wharf	per standard	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots 1–11)

Delivered London area.		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	,,	1	17	6
1/16 in. do. do.	,,	2	4	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

Basis Joists—		£	s.	d.
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1½ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
½ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
⅞ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
¾ in. and ⅞ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings		Malleable Fittings
Light	−39½%	−41%	Light	−26½%	Malleable List −18½% + 40%
Medium	−35½%	−37%	Heavy	−22½%	
Heavy	−27½%	−29½%			
Black—					
Light	−50%	−51½%	Light	−32½%	Malleable List −18½%
Medium	−46%	−47½%	Heavy	−28½%	
Heavy	−38½%	−40%			

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipe

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt. qt. lb.	Per yd.	Bends	Branches
4 in.	1 1 17	35/3	23/9	42/–
6 in.	2 0 1	51/7	63/9	101/–

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	... per yd.	4/7	4/10½	5/11	7/10
Shoes ...	... each	3/–	3/3	3/10	5/2
Single Branches ...	... "	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	"	3/7	4/8	5/2	7/3
do. 6 in do....	"	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	... per yd.	4/4	4/9½	5/9	6/10½
Drop ends ...	... each	3/6	4/–	4/9	5/5
Stop ends ...	... "	1/1	1/2	1/3	1/5
Angles ...	... "	3/7	4/1	5/–	5/10
Nozzles ...	... "	3/6	4/–	4/9	5/–
Union Clips ...	... "	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends ...	... each	2/6	3/–	3/3	3/7	5/2
Stop ends ...	... "	1/–	1/1	1/2	1/3	1/5
Angles ...	... "	2/10	3/3	3/7	3/10	5/2
Nozzles ...	... "	2/6	3/–	3/3	3/7	5/2
Union Clips ...	... "	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	"	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	"	3 1½
Corrugated sheet BS 1470 NS3 Circular ... Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial... Profile 8 ft. × 31¾ in. × 20 SWG	"	1 19 3
Corrugated sheet BS 1470 NS3 Mansard... Profile 8 ft. × 31¾ in. × 20 SWG	"	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	"	2 7½
Extruded section BS 1476 HE10WP simple angle	"	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	"	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	"	6 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	"	4 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut bolter screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s. d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb. 3 7
Tinmen's	" "	404/–	" " " 4 5
Blow pipe ...	" "	407/–	" " " 4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 29¾d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	45¼	Approx. per ft.	12½
¼ in. × 19 "	13¾	" "	43½	" "	17
1 in. × 18 "	12¼	" "	42	" "	26
1¼ in. × 18 "	11⅞	" "	41⅜	" "	31½
1½ in. × 18 "	11⅝	" "	41⅛	" "	37¾
2 in. × 17 "	13¼	" "	43	" "	60¼

Small Quantity extras :—
10 cwts. to 5 cwts. ... ... plus ½d. per lb.
5 cwts. to 2 cwts. ... ... " 1d. "
2 cwts. to 1 cwt. ... ... " 2d. "

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	286 10 0

Zinc

	£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards per cwt.	7 15 3
" " 12 gauge (23 SWG), " " " "	7 14 9
" " 14 gauge (21 SWG), " " " "	7 13 6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2 0⅝

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	112 10 0
" Water Pipe, in coils	"	114 15 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	"	116 5 0
" " " over 4 in. dia....	"	118 5 0
" Gas or Untinned Compo pipe...	"	116 5 0

5 cwt. lots and over less 6d. per cwt. off basic prices.
Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	"	6 0

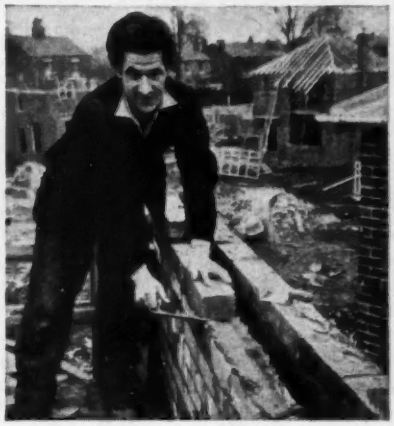
Smaller quantities than 1 cwt. priced specially.
Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.
Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	"	8 14 0
Sirapite Coarse BSS 1191 Class C do.	"	8 15 9
do. Fine do. do. do.	"	9 3 3
do. Browning BSS 1191 Class B do.	"	8 15 9
do. Board Finish do. do.	"	8 15 9
Blue Lias Lime, in 6-ton loads	"	6 14 6
Hydrated Lime (Grey), in 6-ton loads	"	5 10 0
do. (White) do.	"	6 0 0
Lump Lime (Grey) do.	"	5 7 0
do. (White) do.	"	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	"	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	"	11 14 0
Granite Chips, in 6-ton loads	"	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	"	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	2 9
1,200 yds.	"	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	"	2 6½
1,200 yds.	"	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	3 0
1,200 yds.	"	3 0

3 North Western builders change to Entrainit

At Wilmslow—Messrs. D. Stewart are building 32 houses with ENTRAINIT. Previously they used another plasticiser but changed to ENTRAINIT because *it saved more money!*



At Sale—another builder who had always used a liquid plasticiser, has proved on this site that ENTRAINIT not only costs less but produces *better mortar!*

At Timperley—the builders of yet another estate changed to ENTRAINIT when they found it was more economical and far *easier to control*

Hundreds of builders prove Entrainit saves more money!

It's the powder plasticiser that outdates all others!

More facts about Entrainit

Entrainit is a powder. You add it straight to the mixer with the special scoop supplied—no stock solution to mix, no splashing, no wastage.

Entrainit comes in handy 28 lb. boxes which are easy to store and can be carried to any part of the site—no drums to pay a deposit on, or return.

Entrainit gives you almost instant dispersal throughout the mix. You get a completely consistent and uniform mix. Mortar made with ENTRAINIT is fattier, more workable, produces well-filled joints and gives a smooth durable finish.

Entrainit is 50% cheaper than liquid admixtures—1 ounce is required for 1 cwt. of cement and the maximum cost is only 3d. per ounce.

Change to Entrainit and save money on every mix!

Obtainable from Builders' Merchants!

For further details about ENTRAINIT fill in and post this coupon to:

Bulk Products Division, Thomas Hedley & Co. Ltd, Newcastle upon Tyne 3.

NAME .....

ADDRESS .....

.....

.....

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Yes, even archiplasts have plastering problems. But the technical service of The Gotham Group is freely available to all who need it—architect, surveyor and building contractor. Such practical on-site aid is all part of the background of research which has established pre-mixed Carlite and Green Bag Thistle as the outstanding plasters of our time. Write for a copy of 'The Green Book on Plastering' the practical handbook without which no archi-, survey- or contracti-plast should ever ever be.

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Thomas McGhie & Sons Ltd., Kirkby Thore, Westmorland. Tel: Kirkby Thore 204.

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	"	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	"	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	"	2	13	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	"		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra... ...	"		5	4½
do. do. (40 gal.) do.	"		4	8½
Solignum, Brown (5 gal. cans) Exterior	"		8	8
Creosote (40 gal. barrels)	"		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	"	2	0	0
Hard Drying Oak for Inside	"	2	5	0
Crystal Paper Varnish do.	"	2	8	0
Eggshell Flat Varnish do.	"	2	2	0
Finest Carriage Varnish	"	2	7	0
Front Door Varnish	"	2	4	0
Japan Gold Size	"	1	12	0
Black Japan	"	1	16	0
Brunswick Black	"	1	12	0
Berlin Black	"	1	10	0
Terebene	"	1	12	0
Knotting (1 gal. bottles free)	"	1	15	0
French and Brush Polish (do.)...	"	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	"		11½
26 oz. do. do. do. do.	"	1	2½
32 oz. do. do. do. do.	"	1	6½
¼ in. Rolled Plate	"	1	2½
7/16 in. Rolled and Rough Cast	"	1	5
½ in. do. do.	"	1	5½
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	"	1	8½
do. Standard Tints	"	2	1½
do. Special Tints	"	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	"	1	7½
¼ in. Wired Cast	"	1	9½
½ in. Georgian Wired Cast	"	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in. ...	"	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ...	"	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ...	"	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ...	"	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	"	7	6
P.B.3 Broad reeded...	"	9	0
P.B.32 Cross reeded	"	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
" " " 5 ft. sup.	"	5	7
" " " 45 ft. sup.	"	6	9
" " " 100 ft. sup.	"	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	"	10	9
Not exceeding 180 ft. sup. or do.	"	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6½
24 oz. " "	2,000		8½
26 oz. " "	2,000		11
32 oz. " "	2,000	1	2½
¼ in. Rolled Plate	1,000		10½
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/16 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1½
½ in. Wired Cast, Hexagonal	2,000	1	4½
½ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calc'er Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	*

CURRENT RATES OF WAGES—Continued

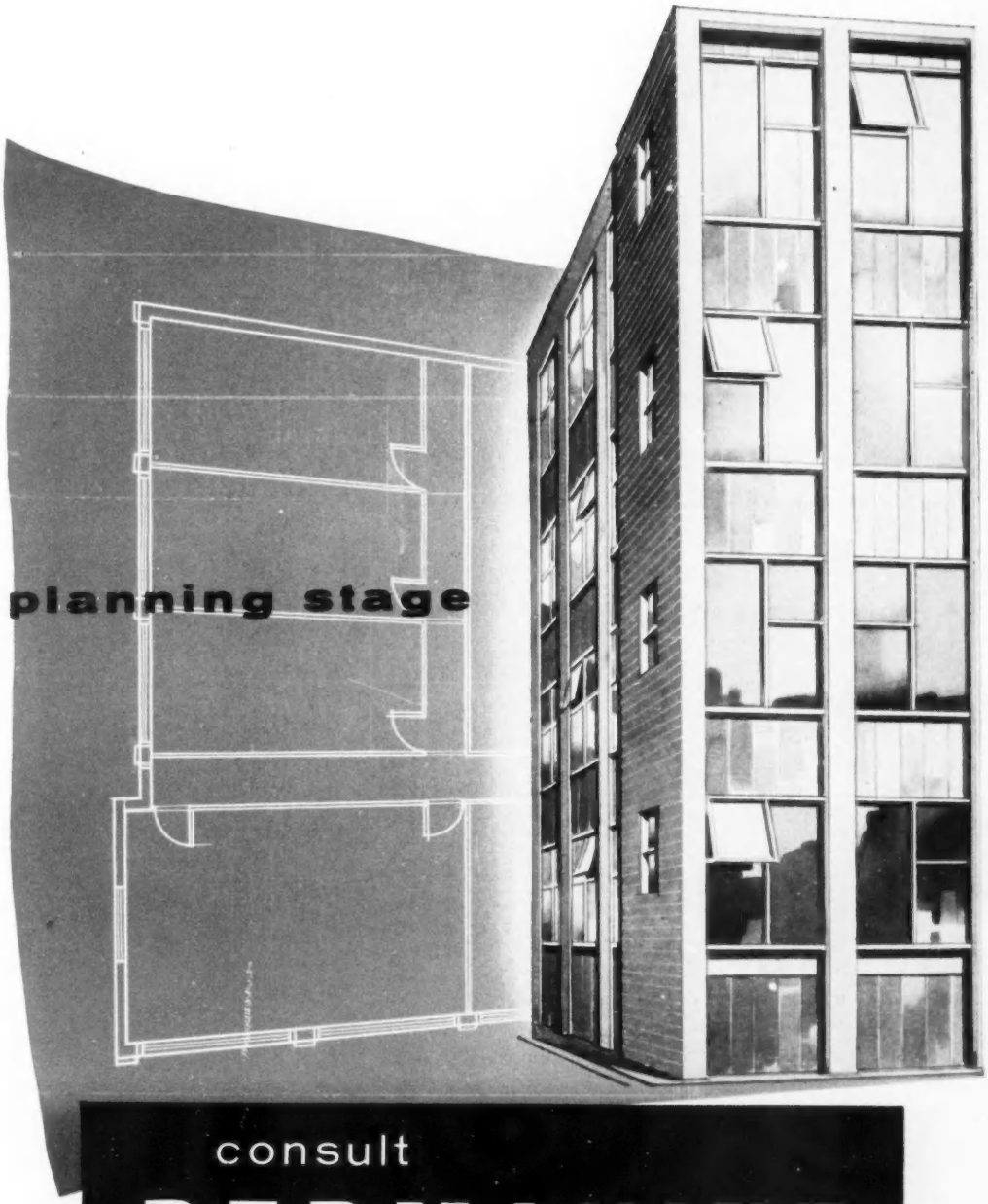
Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 37



At the planning stage

consult

PERMANITE

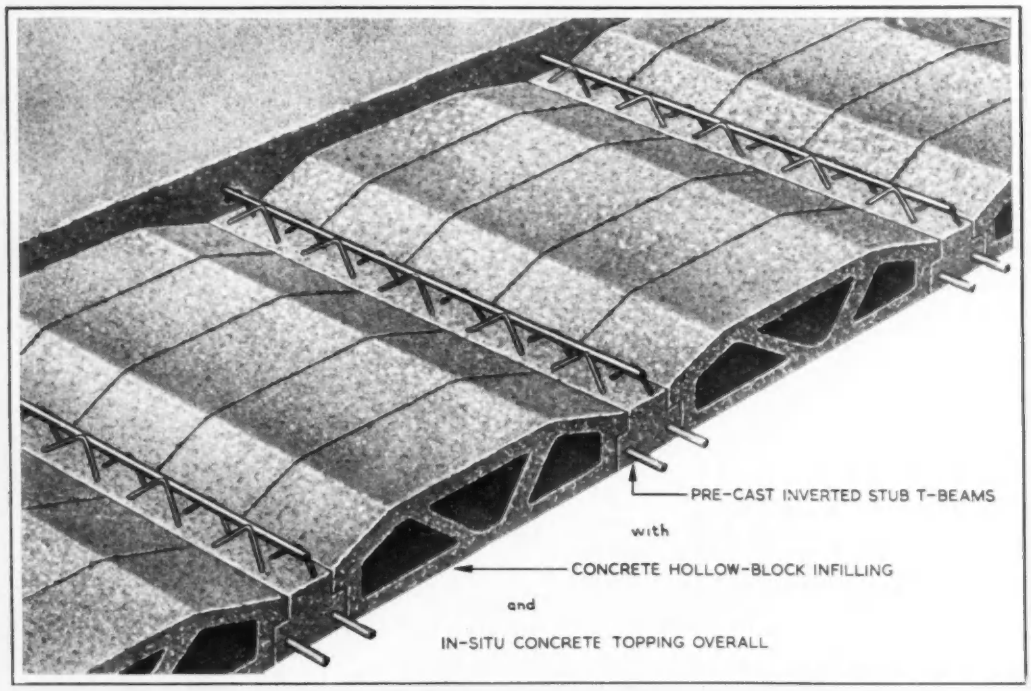
for BUILT-UP FELT ROOFING • ASPHALT ROOFING FLOORING AND TANKING

PERMANITE LTD LONDON ADVance 4477 (20 lines) BIRMINGHAM BIRchfields 5041 MANCHESTER BLAckfriars 9469

PERMANITE also manufacture Bituminous Roofing and Dampcourses. Specify PERMANITE

THE TRIAD FLOOR

of light weight, simply and quickly erected, and combining the best features of in-situ and pre-cast concrete construction



ADVANTAGES:

1. No shuttering; minimum of temporary propping; ample room below for following trades.
2. The in-situ concrete topping ensures a more homogeneous slab than one composed solely of pre-cast units, better able to distribute imposed loading, and so avoiding the possibility of cracking in floor and ceiling finishes due to differential deflection in individual units.
3. A slight increase in the thickness of concrete topping provides for embedding conduits, etc., without the addition of a separate screeding for that specific purpose.
4. The uniform concrete soffit provides an ideal key for plaster.
5. If required, T-beams and hollow-blocks can be supplied for erection by the General Contractor.

Fully detailed literature forwarded on request: **THE KLEINE COMPANY LIMITED, 9-13 GEORGE STREET, MANCHESTER SQUARE, LONDON, W.1 :: Telephone: Welbeck 9131**

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 138 of this issue. The form can be used for more than one inquiry.

1. Cladding

A new material to come to this country is a REFABRICATED NATURAL MARBLE quarried in Italy. It has the advantages of marble such as colour retention and polish, and can be worked and fixed in the same way, but does not suffer from cracks and defects. These are eliminated in the manufacturing process where, after quarrying, the marble is crushed to a predetermined particle size, graded, made into a paste and passed through a patented veining process when the colouring and veins found in marble are reproduced. To minimise the possibility of warping, twisting or cracking it is cured for six weeks and tests have shown that in strength it is at least the equal of ordinary marble.

On the Continent it has been used with good effect on exteriors and interiors of large blocks of flats, offices, hotels, banks and private houses. The two standard sizes in which it is being supplied are 20 in. x 20 in. x 1¼ in. for floors and 20 in. x 13 in. x ¾ in. for walls.

Similpierre Marble Products Ltd., Berger House, Berkeley-sq., W1.

2. Protective Coatings

An ANTI-CORROSIVE solution for the pretreatment of rusted metal surfaces before painting, previously used in industry, is now available for small scale applications. The solution is a non-acid and entirely non-toxic fluid made from a special blend of tannins. These combine with the oxides on already corroded metals (ferrous or non-ferrous) to form a hard and insoluble tannate film. This film halts further corrosion by rendering the metal inert and at the same time gives it a hard and burnished surface which bonds well with all recognised industrial paints and increases their covering capacity. It also prevents the paint from lifting and blistering and ensures a smoother finish.

The Plus-Gas Co., Ltd., 1-11 Hay-hill, London, W1.

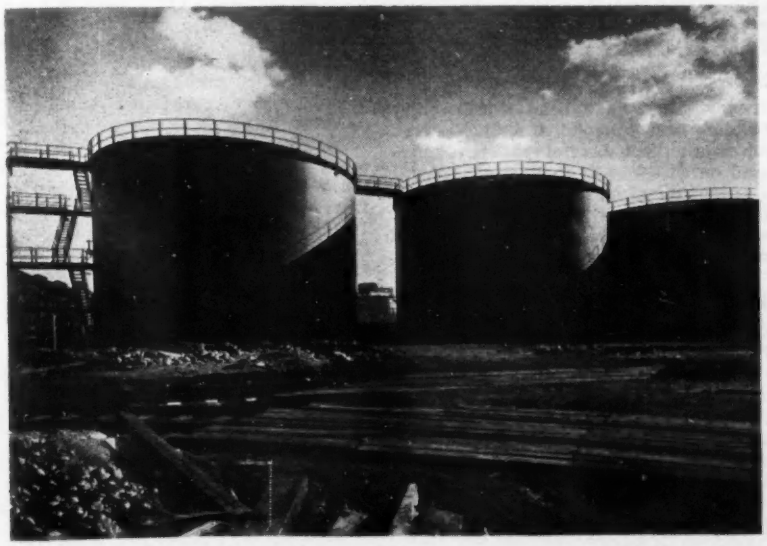
3. Heating

A new technique in combustion is the interesting feature of an OIL FIRED BOILER now being manufactured in this country. The design of the combustion chamber and oil burner provides a turbulence which results in two passes being made in the chamber itself and only the third and last pass being made through flue tubes. The inlet to the flue tubes is at the front of the boiler and because of the reversion of the flame the length of travel is doubled within the combustion chamber. This causes the carbon particles to enter and re-enter the high temperature flame zone many times, so increasing the radiation effect. One of the results which derive from this technique is that a much smaller unit can be used.

The boiler can be operated on low, medium and high pressure hot water installations with 85 per cent. minimum efficiency.

Flexaire Ltd., 270 Vauxhall Bridge-road, SW1.

Storage tanks, walkways and stairways at the North Thames Gas Board's works at Beckton, after treatment with Plus Gas anti-corrosive solution



Johnson No. 4 pipe laying winch

4. Contractors' Plant

An all-steel PIPE LAYING WINCH is being manufactured that consists of two tubular and one fabricated steel leg. A two-speed winch with machine cut gears is built on to the steel leg, and fitted with ratchet and pawl and a hand brake. It enables pipes to be raised, lowered, positioned and placed with the minimum of time and effort.

C. H. Johnson (Machinery) Ltd., Adswood, Stockport, Cheshire.

5. Pointing

A new MORTAR BOARD, for pointing and general mortar work can now be obtained. It is light and clean in use and, being made of steel, it holds the moisture in the mortar, or any other material, used. In operation the board is placed against the 'coursing' and the mortar slid into the jointing.

Wilkinson & Cuthbert Ltd., 47 Eyre-lane, Sheffield, 1.

Technical Publications

To simplify CABLE JOINTING a number of epoxide and polyester materials are now being made available. Epoxide resins possess good adhesion to most surfaces particularly to metal conductors, armouring, and most types of tape, and, when used in cable jointing compounds, eliminate the need for cumbersome site heating equipment. Because of the inherent strength of cast epoxide resins, simple moulds made from thermoplastic sheet, pulp or similar materials are quite adequate and obviate the use of metal joint boxes. The controllable quick-setting characteristics of these resins also make possible a quicker jointing cycle. The technical properties of these resins offset to a large extent their high initial cost.

Advance Information Sheet E.40, just published by Bakelite, Ltd., of 12-18, Grosvenor-gardens, London, SW1, gives particulars of a number of epoxide resin jointing techniques. Copies are obtainable, free of charge.

Building Materials and Fire

From a Correspondent

INCREASING ATTENTION has been paid in recent years to the fire problem in relation to building. Repeated efforts have been made to make architects and the building industry more 'fire-conscious.' This is natural in view of the growing figures of fire losses in terms of money—last year's figure, which was widely reported recently, constituted a record.

Particular efforts have been made by fire authorities and others interested in the prevention and reduction of fire loss, to try to pinpoint specific causes of fires and to make propaganda for their elimination. Much has been said and written, for example, about the use of various types of modern building materials, in particular combustible sheet linings. These have been accused of constituting a fire hazard by increasing the chance of fire breaking out and of enabling a fire once started to spread more rapidly than would otherwise be the case.

Condemning the Model By-law

An interesting example of this approach was the resolution passed on May 13 last by the Worcester City Fire Brigade, condemning the new model by-law relating to the thermal insulation of buildings recently produced by the Ministry of Housing and Local Government. This action of the Worcester Fire Brigade was reported in 'The Builder' of May 20, and Mr. G. Eastham, Chief Fire Officer of the Worcester authority, was stated to have told a Press conference that combustible insulating materials such as those scheduled in the model by-law are 'creating danger to life.'

Resolutions and statements of this kind require careful analysis on the part of builders, architects and public authorities to whom they are addressed. They are, of course, of considerable interest to the manufacturers of the materials concerned, who have in some cases given careful study to the fire question. The Fibre Building Board Development Organisation, Ltd., representing the manufacturers and distributors of fibre building boards in the United Kingdom, had a number of tests carried out by the Fire Research Station and has embodied the results, together with evidence derived from the study of official fire reports and statistics and the results of other tests done both in this country and overseas, in a booklet recently published under the title 'Fibre Building Boards and Fire.'*

The booklet makes a number of points. It states that there is no evidence of correlation between the presence of fibre building boards in buildings and the actual outbreak of fire. (In spite of the massive increase in the use of these materials, the percentage of fires in buildings in which the first materials ignited were ceilings, partitions or linings made of materials other than natural timber remained so small—0.55 per cent in the most recent official statistics—as to be negligible.)

The booklet points out that almost any form of standard decoration applied to natural untreated fibre building boards has the immediate effect of reducing the possibility of flame spreading rapidly over their surfaces. It emphasises that fibre building boards are widely available with special treatments giving Class 1 (the best class) under the Surface Spread of Flame Test of BS476—either by surface treatment, asbestos paper coating, or impregnation. Finally, the booklet states that the tests carried out for FIDOR at the Fire Research Station showed that under identical conditions, in full size furnished domestic rooms, Class 1 fibre insulating board ceiling linings gave results, in terms of the development of fire, not significantly different from those obtained where the ceilings were entirely non-combustible.

'Fibre Building Boards and Fire' also gives recommendations regarding the use of Class 1 boards in industrial premises to meet the requirements of the Thermal Insulation (Industrial Buildings) Act, and deals with the questions of decoration, durability and cost of board treated to Class 1 under the Spread of Flame Test.

It is probably worth recalling that the most traditional of all building materials, timber itself, is combustible. A recent publication of the Timber Development Association points out that the greatest fire loss in history occurred in an 'incombustible' factory manufacturing 'incombustible' components from 'incombustible' materials.

Lining Materials

Reverting to lining materials, any contribution which these would make to fire hazard must necessarily be of a secondary character, arising only after the outbreak of fire. It is most important to realise that contents and occupancy are of far greater significance in the development of fire than any lining materials or part of the structure itself. All domestic rooms, for example, contain large quantities of furniture, textiles and other combustibles which will largely influence the development of fire irrespective of the nature of the lining materials. This should be borne in mind when the temptation arises, in the search for fire safety, to recommend the exclusive use of non-combustible building materials despite all the advantages of economy and efficiency which other materials offer by comparison.

Tests more recent than those described in the booklet 'Fibre Building Boards and Fire' have been carried out at the Fire Research Station. In two of these tests, this time on wall linings, fires were started in two identical rooms under the same conditions and on the same day. One room had a plastered fibre insulation board lining and the other a lining of completely non-combustible insulation. In the room with the fibre insulating board, the time taken for the development of the test fire to 'flashover' was twelve minutes, but in the other room with the non-combustible insulation the 'flashover' time was only eight minutes, and when this test was repeated with the same non-combustible insulation the 'flashover' time was 4 minutes 10 seconds. It would be foolish to interpret these results as showing that this form of totally non-combustible insulation is a most dangerous material to use, yet this illustrates the danger of a too facile interpretation of evidence on the 'post hoc, ergo propter hoc' principle. There is no simple explanation for results of this kind, but they indicate beyond doubt that the rate of fire development in buildings does not hinge only on whether the linings are combustible or not. The desire to exclude combustible lining materials altogether from modern buildings is shown to be far from well-founded.

* This is available free of charge on request from FIDOR, Stafford House, Norfolk-street, London, WC2.

News in Brief

Unexpected Offer

CLLR. K. B. BENFIELD, head of a Coventry building firm, was offered a £125-a-week job as a project director while in Stalingrad on a civic visit to Russia. 'It was a serious offer,' he says. 'But there was no question of my taking it, though I would not have objected to it for a month or two—as a holiday.'

Atomic Power Groups Merge

TWO nuclear power groups, Atomic Power Constructions and the GEC-Simon-Carves Atomic Energy group, have agreed to join forces to design and build nuclear power stations in Britain. This move reduces the number of nuclear power consortia to three. After the recent announcement in a White Paper of a slowing down in the nuclear power programme one of the builders of nuclear power stations said that the programme was the minimum required to keep the consortia in being.

Atomic Power Constructions comprises the nuclear interests of Richardsons, Westgarth, International Combustion, Crompton Parkinson, Fairey and Trollope and Colls, while the GEC-Simon-Carves group combines those of GEC, Simon-Carves, Motherwell Bridge and Engineering, and John Mowlem.

Builders' New Head Office

ON JUNE 27 Marshall Andrew & Co. Ltd., builders and civil engineers, moved into their new head office, St. Andrew's House, 40 Broadway, London, SW1. This is a seven-storey, reinforced concrete building designed by Messrs. Fitzroy Robinson & Partners, architects. The building incorporates revolving double windows, a new feature in this country.

TRADE MARK

Combinol Gloss Paint

and

Valspar Eggshell Lustre

Technical Advisory Services

Whilst rules can be laid down concerning the general use of paint, there are many instances where, due to a combination of circumstances, some sound technical advice is essential.

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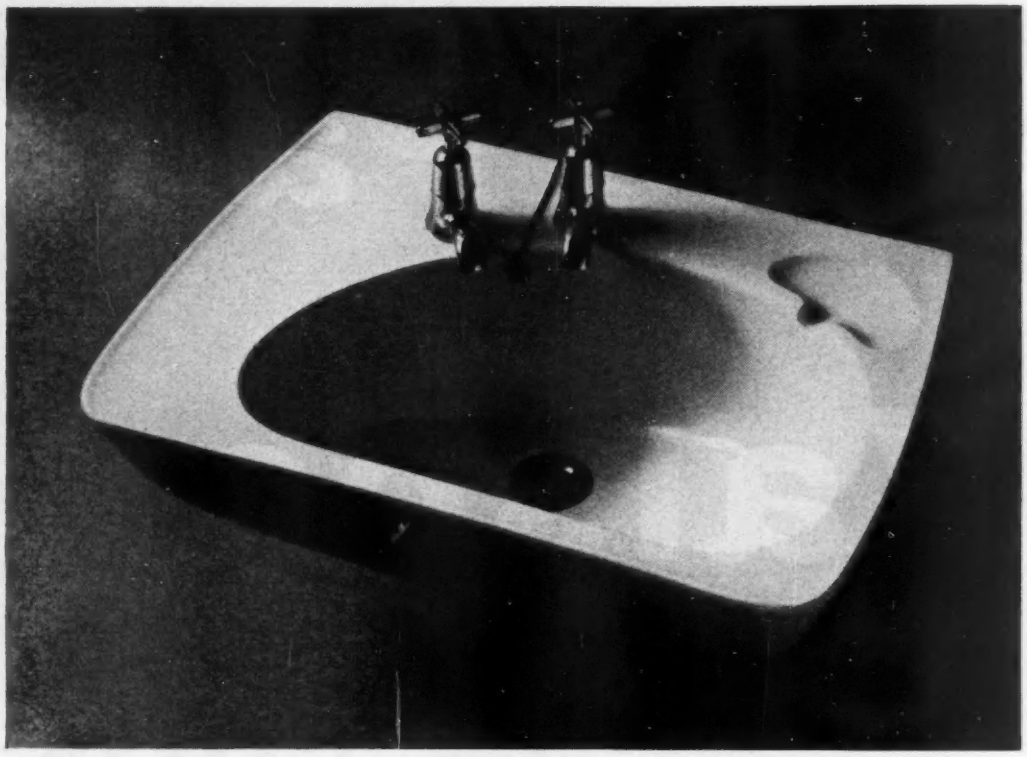

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J64

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (QUEENSLAND).—The State Electricity Commissioner has announced that investigations are proceeding in connection with the possible construction of a large power house in Queensland, at an estimated cost of about £50m. The Callide Coalfield has been suggested as a possible site.

CANADA (ALBERTA).—The Canadian Huskey Oil Co. plan to spend $1m. on new construction at their Calgary refinery. . . . The Big Inch Pipe Co. Ltd. is to construct a $4m. steel pipe plant in Calgary. . . . California Standard Oil Co. plan to build a $3m. new plant at Nevis shortly.

CANADA (BRITISH COLUMBIA).—A $13m. terminal building is to be constructed at Vancouver Airport. . . . Western Gypsum Products are to construct a $25m. plant in Vancouver. . . . A new plant, to be constructed for Consolidated Mining and Smelting, at Trial, will cost $2.6m. and is scheduled for completion in 1961.

CANADA (MANITOBA).—The Catelli Food Products Co. is to construct a $1m. plant, on a 14-acre site, at Transcona.

CANADA (ONTARIO).—The Aluminum Co. of Canada is to add a second rolling mill to their Kingston plant at a cost of $1.6m. . . . Tenders will be called shortly for a new $3.5m. plant for the International Harvester Co. at Hamilton. . . . Construction of an airport at Barrie has been announced by the Department of Transport, to meet the rapid industrial expansion of this city.

CANADA (PRINCE EDWARD ISLAND).—The Silica Sand Co. Ltd. has announced the construction of two new plants at Charlottetown and Elmira. . . . Considerable construction work is to be undertaken at the Summerside airport; rehabilitation of the runways will cost some $708,000.

CANADA (SASKATCHEWAN).—Some $9m. will be spent this year on the $46.5m. construction project of the Squaw Rapids hydro-electric plant. Completion of the entire project is scheduled for 1964. . . . A $33m. hydro plant is to be constructed 60 miles south-west of Saskatoon. . . . The Hudson Paper Co. is to construct a new office and warehouse building in Saskatoon.

ISRAEL.—The Nazareth Municipality is to receive a grant of I£170,000 and loans totalling I£490,000 from the Israel Government for its special I£700,000 development budget. Major items cover the broadening of the town's main streets, the building of a new municipal market, and the expansion of the water and electricity networks.

KENYA.—Plans to build a new seven-storey hotel in Nairobi have been approved in principle by City Council. The first stage of the project, submitted by a Nairobi businessman, provides for 80 bedrooms and will cost about £150,000.

MALAYA.—The Dunlop Rubber Co. is to build a $25m. tyre factory at Petalang Jaya, industrial suburb of Kuala Lumpur.

PORTUGUESE EAST AFRICA.—Plans have been approved for the construction of a railway station at Beira at a cost of approximately £½m. An eight-storey administrative block will be included as part of the scheme.

SOUTH AFRICA.—Work will start towards the end of the year on the construction of Durban's new £12m. water scheme on the Umgeni River. The government has issued permits for the building of a £4½m. dam near the present waterworks.

SOUTHERN RHODESIA.—A £78,562 contract for the fabrication and erection of all structural steelwork for the new £1½m. Ford Motor Company's assembly plant in Salisbury has been awarded to Rhodesian Engineering and Steel Construction Co., Ltd., of Bulawayo. . . Large-scale building projects scheduled for Bulawayo include the building of the new Chabalala township on the Western commonage (£1m.), the railways townships in the same area (£900,000), the African home ownership scheme in Mpopoma (£¼m.), swimming baths and halls in African townships (£¼m.), and a new museum (£¼m.).

SUDAN.—Barclays Bank DCO reports that discussions have recently taken place with the World Bank concerning financial assistance for the completion of the Managil extension to the irrigated cotton growing areas and the building of the Roseires Dam on the Blue Nile. The government intends to invite tenders for the construction of the Dam at an estimated cost of £S35m.

TRANSVAAL.—Work will start in Pretoria in July on a £200,000, six-storey office block for the Transvaal Nederduits Gereformeerde Kerk (Dutch Reformed Church).

Building in South Africa

THE VALUE of building plans passed in the eighteen principal urban areas of the Union of South Africa, at £19.6m. totalled some £800,000 more in the first four months of the year than in the similar period of 1959, reports Barclays Bank DCO. The bank states that there was an increase of some £½m. in the value of plans for flats, and the figure for dwelling houses was some £300,000 more than last year's corresponding total. The value of plans for manufacturing and other non-residential buildings was only slightly lower, while that for the proposed programme of alterations and extensions to existing buildings was more or less on a par with last year's level.

Housing in the Bahamas

THE HOUSE OF ASSEMBLY has passed a Bill to establish the Bahamas Housing Corporation which will promote housebuilding for middle and lower income groups and insure mortgage loans.

SCOTTISH BUILDER

New Council Headquarters

LANARKSHIRE COUNTY COUNCIL'S new headquarters to be built at Almada-street, Douglas-street and Clydesdale-street, Hamilton, at a cost of £1 million, has received official approval. Site clearance and demolition work is now well advanced. The plans involve a 17-storey office block with extended ground and first floors and a two-storey wing at right-angles to the tower block. In the tower block there will be accommodation for all the normal communal business as well as private suites. The Council chamber will have seating accommodation for 12 members and officials, as well as 50 seats for the Press. A staff and members dining room and servery will be included on the 15th floor. The new offices will give working space to a staff to 700.

New Buildings

AYR.—Parkhouse Development Co., of Ayr, are to build offices and shops on the site of the former Beresford Hotel, Killochpl., Ayr, at a cost of £50,000. . . . William C. Gray & Sons Ltd., Ayr, are to build a workshop at McCalls-ave., Ayr. Est. £3,000.

DUNFERMLINE.—The master of works, Mr. Andrew Sinclair, reported to the Dunfermline Dean of Guild Court that during the past year the Court had approved 91 petitions and the work involved amounted to £1,345,029, compared with £1,181,951 for the previous year.

DUNFERMLINE.—TC are to build 166 houses at a cost of £317,160. These will be located at Aberdour-rd. (80); Headwell (42); Kingseat (16), and Townhill (20). . . . Bett Brothers, of Dundee, are to build 19 houses at the Transy estate, at a cost of £46,690.

EDINBURGH CORPN.—Leith Fort housing development.—Two 21-storey blocks and 38 lock-up garages and podium. Applications to City A., City-chbrs., Edinburgh.

GLASGOW.—The Corpn. are to build 600 houses on the former Maryhill Barracks site, which they will take over on August 1. The SSHA are to carry out the work. Multi-storey construction is planned, and the work will begin on the first phase of 350 houses at the end of the year. Private architects will co-operate because of the shortage of staff in the City Dept.

GLASGOW.—Private enterprise is being sought for the development of the shopping and town centre in the Castlemilk housing area. Firms which previously offered for the Drumchapel town centre will be invited to offer their proposals.

STIRLING.—TC has agreed to meet representatives of two development firms interested in the redevelopment of the central commercial area of the town.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are :

Year	*Percentage of Craftsman's rate*	*For week of 44 hours* s.	d.
1st	25	54	6½
2nd	33⅓	72	9
3rd	50	109	1
4th	66⅔	145	6
5th	75	163	7½

For female labour, the rates are :

	s.	d.
Operatives on craft operations (at end of probationary period)	4	4
Operatives on labouring operations (at end of probationary period) ...	3	10

THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

JULY 5

(AR) BIRMINGHAM CITY C.—Firm price tenders for nine dwellings at Trittiford-rd., Billesley. City A. Dep. £2 2s. Tenders by August 5.

JULY 9

(AR) BEDFORDSHIRE EC.—Fixed price tenders for proposed county prim. jun. sch., Brickhill estate, Bedford. County A.

(AR) ESSEX C.C.—Firm price tenders for:—(a) New laundry at Chigwell High View ESN sch. (b) Erection of school-keeper's house at Cranham Hall Mead county sec. sch., Hornchurch. County A. (separate applications).

JULY 11

(AR) LISKEARD BC.—Construction of 66 houses, 15 bungalows and 30 garages, etc., at Lake-la. housing estate. G. R. Vaughan Ellis, chartered architect, National Provincial Bank-bldg., Trehawke-hse., Liskeard, Cornwall.

(AR) NORTHAMPTON CBC.—Erection of pavilion-changing room accommodation at Dallington Park. Boro' A. Dep. £2 2s.

(AR) SOUTHEND-ON-SEA CBC.—Three-storey block of flats and maisonettes at Mendip-cres., Westcliff-on-Sea. Boro' A. Dep. £2.

(R) STEVENAGE UDC. — Erection of covered swimming pool at St. George's way. C.

(A) STRETFORD BC.—Restoration, conversion and improvement of terraced houses at Humphrey-rd. and Seymour-grove, Old Trafford. Boro' S. Dep. £2 2s.

(AR) WOLVERHAMPTON CBC. — Erection of 58 dwellings and 30 garages at Essington Way, Willenhall-rd. north estate. Boro' E. Dep. £2 2s.

JULY 12

(AR) MERTHYR TYDFIL CBC.—Construction of single-storey omnibus garage (stage 2), with boiler house and all services. TC. Dep. £3 3s.

JULY 16

(A) CONISBROUGH UDC.—Erection of one 'Unity' type community hall at Hickleton-st., Denaby Main. E&S. Dep. £2.

JULY 18

BELFAST.—Erection of maternity and child health clinic at Ballymurphy, Belfast. City A., Room 53, City Hall, Belfast.

LIMERICK CORPN. — Construction of Garryowen-Pennywell Link-rd. housing scheme, consisting of 40 houses, etc. S. O. P. O'Ceallachain, Arus Na Cathrach, Rutland-st., Limerick. Dep. £10.

JULY 20

(A) CHERTSEY UDC. — Two ablution blocks and warden's office at Heathervale caravan park. E&S. Dep. £1 1s.

(A) MORECAMBE & HEYSHAM BC.—Erection of two shops and two flats at Branksome-dr. estate. Boro' E&S. Dep. £2.

JULY 21

(A) EALING BC.—Erection of eight flats at Windsor-rd., W5. Boro' S. Dep. £5.

(A) REIGATE BC.—Fixed price tenders for one block of 16 maisonettes with stores under and one block of 10 maisonettes at The Dome estate (North-st.), Redhill. Boro' S. Dep. £2 2s.

JULY 22

(A) ASHTON-UNDER-LYNE BC. — Firm price tenders for 144 flats and 16 houses, with external services and site works, at Charleston redevelopment area. Boro' S. Dep. £3 3s.

(A) WOKINGHAM BC.—Erection of 21 dwellings at Commons-rd. housing site. Boro' S. Dep. £2 2s.

JULY 27

DUBLIN CORPN.—Erection of two five-storey blocks of flat dwellings, containing 14 flats and 44 maisonettes, at Chamber-st. housing area. City T., Exchange-bldgs., Lord Edward-st., Dublin. Dep. 15 gns.

AUGUST 8

(A) GILLINGHAM BC.—Erection of 50 (approx.) dwellings and 37 car ports at Britton-st. redevelopment area. TC. Dep. £5 5s.

AUGUST 10

(A) HUNTINGDON RDC.—Fixed price tenders for six garages at Brampton. K. A. Milner, 4 Market-hill, Huntingdon. Dep. £2 2s.

NO DATE

(A) CHATHAM BC.—Inclusion on list of approved building contractors for approx. 83 dwellings at Hardstown redevelopment area. Boro' E&S. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

JULY 8

(A) BRENTFORD & CHISWICK BC.—Internal and external redecoration to flats at Kent House, Hogarth-la. estate, Chiswick, W4. Boro' E&S.

JULY 9

(AR) BEDFORDSHIRE EC.—(a) Engineering services, and (b) electrical installation at proposed county prim. jun. sch., Brickhill, Bedford. County A.

(AR) BOURNEMOUTH CBC.—Fixed price tenders for the replacement of existing boilers for heating installation and hot water supply for extensions to offices at 17 St. Stephen's-rd. Boro' A. Tenders by July 18.

JULY 11

(A) MIDDLESBROUGH CBC.—Supply of 202 bays of adjustable steel shelving, clothes and tool lockers and slotted angles. Boro' E.

JULY 16

(A) ELY UDC.—Demolition of No. 49 Silver-st. E&S. Dep. £1 1s.

JULY 18

(A) HORNSEY BC.—Demolition of 44 terraced houses at Campsbourne-rd., Myddelton-rd., Hornsey, N8. Boro' E&S.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

JULY 12

DORKING UDC.—Surfacing of 2,000 sq. yd. of carriageways and 1,200 sq. yd. of footways. E&S.

JULY 14

BEBINGTON BC.—Fixed price tenders for 2,400 lin. yd. (approx.) of 9 to 15in. dia. sewers, with manholes and other appurtenant works. G. B. Kershaw & Kaufman, constg. engrs., 82 Victoria-st., SW6. Dep. £5 5s.

PRESTON RDC.—Fixed price tenders for approx. 11 miles of 6 to 15in. dia. sewers, including manholes, etc., for sewerage and sewage scheme at Barton, Broughton, Goosnargh and Bilsborrow, Ward, Ashcroft & Parkman, Ccl's. constg. engrs., 38 The Temple, Dale-st., Liverpool 2. Dep. £5 5s.

JULY 15

EAST SUSSEX CC.—Private street works: —Fixed price tenders for making-up and sewering of roads at East Saltdean. County S. Dep. £5 5s.

ROCHESTER CITY C.—Fixed price tenders for breaking out the existing tarmacadam carriageway, provision and laying of approx. 1,050 sq. yd. of tarmacadam carriageway on hardcore foundation, and various other works at Manor-la., Borstal. City S. Dep. £2 2s.

JULY 25

BRAINTREE & BOCKING UDC.—Laying of approx. 5½ miles of 9, 10, 15 and 21in. spun-iron pipes, with flexible joints, and the construction of ancillary works, for Codham Mill water scheme. H. Lapworth Ptnrs., constg. engrs., 25 Victoria-st., SW1. Dep. £10.

STANDISH-WITH-LANGTREE UDC.—Firm price tenders for surface dressing of approx. 16,500 sq. yd. of road within urban district—using cold bituminous emulsion and granite chippings. S. & Water E.

AUGUST 12

NEWCASTLE-UNDER-LYME RDC.—Construction of about 100 lin. yd. of spun-iron and 4,000 lin. yd. of glazed stoneware pipe sewers, 12in. and 6in. in dia.; about 200 lin. yd. of spun-iron rising main, 4in. in dia; an ejection station and sewage disposal works, comprising screening and detritus tanks, sedimentation tanks, storm water tanks, dosing chamber, bacteria beds, humus tanks, pump house and pump well, sludge lagoons and incidental work. A. H. S. Waters & Ptnrs., engrs., 25 Temple-row, Birmingham 2. Dep. £5 5s.

GENERAL BUILDING WORK (LONDON)

LEWISHAM. — Dwellings. — MBC have approved detailed plans for the development of a site in Sydenham Park-rd., Sydenham Park and Longfield-cres. by the erection of 68 maisonnettes, 19 bed-sitting room flats, 12 one-bedroom and six two-bedroom flats, 24 houses and 25 garages.

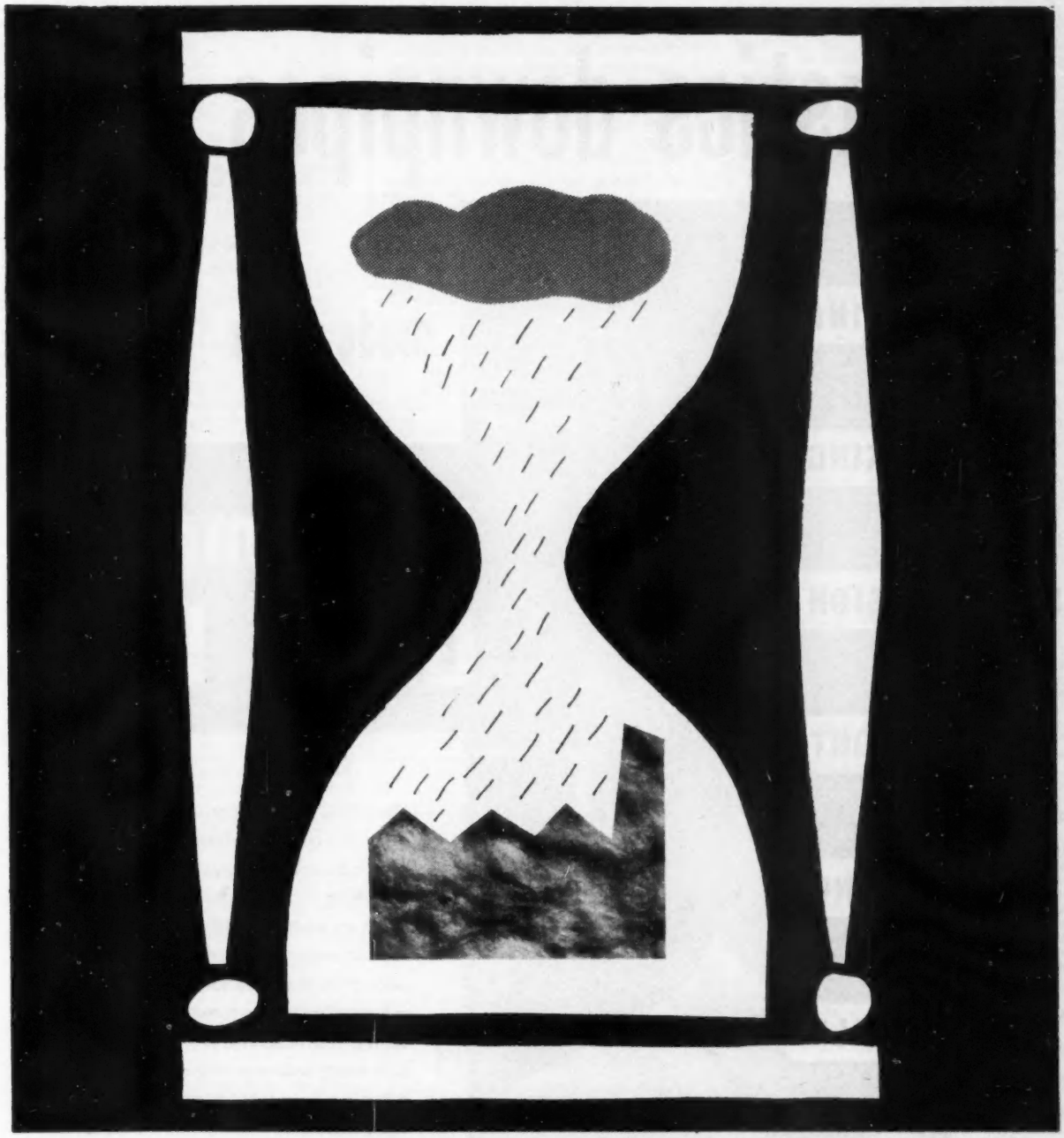
SOUTH KENSINGTON. — New Arts Centre.—A plan for redevelopment of the site in South Kensington, formerly intended for the erection of a national theatre, is being prepared by a firm of architects for Mr. Felix Fenston, the property developer, and is to be submitted shortly to the LCC. It would include a new arts centre for the Institute of Contemporary Art. The site is the property of the Trustees of the National Theatre. Architects are George, Davies and Webb.

'A Building Firm Steps Out'

Reprint Now Available

IN RESPONSE TO MANY REQUESTS, the series of articles which have lately appeared in 'The Builder' under the title 'A Building Firm Steps Out' has been reprinted in booklet form and is now available from the Publisher, The Builder, Ltd., 4 Catherine-street, Aldwych, W.C.2. The price is 2s. 6d. (2s. 10d. post paid) but orders from firms who wish to distribute copies to their senior executive staff and foremen can secure copies at 2s. each (post paid) if 12 or more copies are ordered.

The book, written by Cecil A. Francis, Director of the NFBTE Building Advisory Service, describes the growing pains of a firm of builders, Albert Head, Ltd., employing about 200 men. It bids fair to become a classic of its kind.



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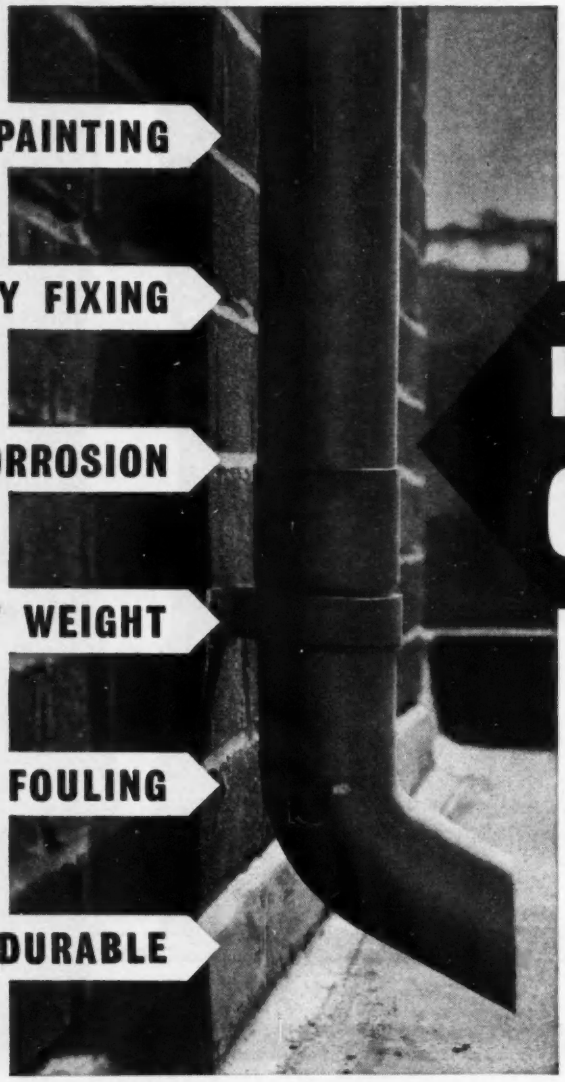

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WANDSWORTH.—Modernisation of Town Hall.—The Town Hall, Wandsworth, more or less untouched since the new municipal buildings were built alongside it in 1936, is to be modernised at a cost of £45,000. Construction will start immediately and will take four months to complete.

WESTMINSTER.—Council Reject Store Plan.—The MBC Planning Com. has recommended that the LCC should reject the Army and Navy Stores' £4m. plan to rebuild its Victoria-st. department store. The project calls for the demolition of the present building and the erection of a modern three-floor department store and a 22-storey office block. Architects are C. T. Elsom & Ptnrs.

(PROVINCIAL)

ACCRINGTON.—BC propose improvements to Town Hall. . . . Manchester Regional Hospital Bd. propose recreation hall at Victoria Hospital.

ARMAGH.—G. P. & R. H. Bell, Solitude, Lurgan, are the architects for an extension at Armagh Observatory for Observatory bd. Est. £3,000.

ASHTON-IN-MAKERFIELD.—Lancs. EC propose extension to five-form entry county sec. sch., Shevington, during 1963/64.

ASHTON-UNDER-LYNE. — BC propose erection of 10-storey block of flats at Charlestown, and 14 bungalows at Burgess-ave.

BASINGSTOKE.—Mr. R. Gerard is seeking outline approval for conversion of the John Mares clothing factory at New-st. into retail shops with offices over. . . . Mr. S. Coutts proposes to erect a three-storey block of flats on land at Winchester-st. . . . F. Smith (Basingstoke) Ltd. propose new motor showrooms, with offices over, and detached workshop off Chapel-st. . . . . The Area Planning Com. has recommended approval to Hampshire CC to build a sec. mod. sch. adjacent to Western Way. . . . Bernard McManus Ltd. has submitted plans for the erection of 51 dwellings on 7.5 acres at East Oakley. . . . Area Planning Com. has recommended approval for following:—Outline plan for a three-storey offices block and single-storey factory on existing site at Kingsclere-rd. for Lansing Bagnall Ltd.; works and storage accommodation on existing site at Lister-rd. for L. M. Van Mopps & Son Ltd.

BELFAST.—Robert McKinstry, 58 Rugby-rd., Belfast, is the architect for a Presbyterian student centre at College Park. Est. £40,000.

BISHOP AUCKLAND.—UDC Surveyor (F. Mole) is to prepare a scheme for proposed redevelopment of a shopping centre at Finkle-st. and Fore Bondgate.

BISHOP'S CASTLE.—Salop CC propose erection of new fire station.

BLACKBURN.—BC propose erection of aged persons' hostel at junction of Burnley-rd./Accrington-rd.

BOOTLE.—BC propose the conversion of the Imperial Cinema into public hall. . . . BC propose the erection of swimming baths at Marsh-la.

BOURNEMOUTH.—CBC building programme for next year amounts to 106 dwellings, most of which will be one and two-bedroom flats for old people.

BRIGHOUSE.—The Trustees of Brighouse St. Joseph's RC sch. propose a seven-class RC sch. at Kinkil-st. . . . G. E. Mellor Ltd. propose housing development at Finkil-st.

BURNLEY.—Burnley & Borough Building Society propose new offices.

BURSCOUGH.—RC Authorities propose erection of new RC sch.

BURY.—The Housing Com. has approved plans for an additional 36 single-bedroom flats at Killon-st.—at a cost of £54,550. Forty single-bedroom houses are already planned for the area.

BUXTON.—BC propose erection of swimming pool on site of present natural baths.

CAERNARVON.—BBC propose erection of television satellite station at Waenfawr.

CARLISLE.—City C's scheme for a community centre at Harraby is to proceed. The first stage of the work will cost £16,000 and the second £21,000. City E is L. J. A. Stow. . . . Housing Development Com. have approved plans submitted by the City S for the erection of 50 houses at Morton at a cost of £61,991. Subject to approval of the City C, loan sanction is to be applied for in the sum of £64,812 to cover building, various site works and contingencies.

CHADDERTON.—Lancs. EC propose erection of new prim. sch. at Hollinwood-ave.

CHEADLE (Staffs).—RDC propose housing development at Checkley.

CHESTER.—Governors propose extensions to St. Bede's sch., Old Wrexham-rd.

CHESTERFIELD.—TC propose erection of approx. 1,800 houses during next three years.

COLNE.—BC propose to erect 50 dwellings during 1960.

CRAWLEY.—A six-storey block of offices costing £727,234 are to be built at Crawley New Town.

CROOK.—UDC is to build 12 three-bedroomed, 30 two-bedroomed houses, and eight bungalows at Watergate estate, Crook, and 50 houses at Sunnybrow. Council's architects are T. A. Page, Son & Hill, 75 King-st., South Shields.

CUMBERLAND.—Independent Television Auth. propose erection of new television station/1,000ft. transmission mast at Brocklebank Fell.

DARLINGTON.—R. W. Gregory & Ptnrs., Pilgrim-hse., Pilgrim-st., Newcastle-on-Tyne, have been appointed constg. engrs. for a pathological laboratory and outpatients' dept. at Darlington Memorial Hospital for Newcastle Regional Hospital Bd.

DARWEN.—ICA plastics division propose modernisation of works. Est. £500,000.

DENTON.—Lancs. EC propose to establish a sec. sch. and prim. sch.

DEWSBURY.—M. Harrison & Co. (Leeds) Ltd., Farnley, Leeds, propose erection of seven-storey block of shops and offices at Wakefield-rd.

DUBLIN.—Mr. Michael Scott has been appointed by Radio Eireann as its architect for proposed television studio buildings which are to be built at Montrose, Stillorgan-rd., Dublin.

DURHAM.—Dashwood & Partners, 10 Lower Grosvenor-st., London, SW1, are planning housing development and the erection of hotel and shops on about 30 acres of land at Brancepeth. Outline proposals for the work have been prepared by Trollope & Son, Mount-st., Grosvenor-sq., London, W1. . . . Plans by ICI Ltd., Slough, for a paint warehouse and offices at Gilesgate Moor, Belmont, have been approved. . . . William Leech Ltd. have prepared layout plans for roads and sewers at High Grange Farm estate. . . . RDC has received loan sanction for £30,509 for 20 houses to be erected by direct labour.

FELLING (Co. Durham). — Pomery Developments Ltd., Wigmore-st., London, W1, are planning the erection of offices, showrooms and shops at High-st. and Providence-pl., Felling.

GLENDALE (Northd.).—RDC is planning sewage disposal works at Lowick. Council's constg. engrs. are Waterhouse & Rounthwaite, 165 Westmorland-rd., Newcastle-on-Tyne.

HALIFAX.—John Mackintosh & Sons propose erection of new premises at Albion Mills. Est. £1m.

KINGSCLERE (Hants).—Area Planning Com. has recommended approval to Kingsclere & Whitchurch RDC's proposal to erect old people's bungalows on 1½ acres at The Hostel, Basingstoke-rd., Kingsclere—providing MoT does not object.

LANCS.—Following for EC:—County sec. sch. for girls at Atherton; county sec. sch., Newton-le-Willows; sec. sch., Eccles; CP sch., Denton; county sec. sch., Whitworth; branch library, Kirkby; clinic/child welfare centre, Chorley; three classrooms at county sec. sch., Langley, Middleton; four classrooms at county sec. sch., Moorclose, Middleton; three classrooms at county sch., Alkrington, Middleton; phase II of grammar sch., Chorley; four classrooms at county sec. sch., Thornton, Cleveleys.

LANCS.—CC propose to rehabilitate derelict sites at Abram, Aspull, Ince and Hindley. . . . EC propose branch library at Abram and branch library at Billinge.

LEEDS.—Housing Com. have approved plans for building a 16-storey block of flats at Greenside, Lower Wortley—the highest block so far designed in the city. There will be six flats of various sizes on each of the 16 floors, and electric floor heating will be provided. The flats will form part of a layout for 233 dwellings on this eight-acre site. . . . Following for TC:—56 houses at Intake-la. estate and 65 garages at Burton-rd., Wyther estate.

LEEDS.—Montague Burton Ltd. propose erection of shops and offices at Briggate.

LEEK.—UDC propose erection of new swimming baths. Est. £50,000.

LEIGH.—BC propose erection of 84 flats at Mather-la.

LIVERPOOL.—British Road Services Ltd. propose erection of new depot at Great Howard-st. . . . Regional Hospital Bd. propose alterations to x-ray dept. at Sefton General Hospital and ward improvements at Newsham General Hospital. . . . TC propose to develop 2.40 acres of land at Jericho-la. for housing purposes.

LLANFAIRFECHAN. — UDC propose erection of 38 houses at Pen Dalar estate.

LONDONDERRY.—Londonderry Corporation are to carry out a scheme for the improvement of the fabric of the Guildhall. Est. £8,000.

MAIDENHEAD.—MoW has asked BC to provide an extension of the new municipal buildings, now in course of erection, in order to accommodate the District Valuer's dept.

MANCHESTER. — Richard Johnson & Nephew Ltd. propose mill extension at Forge-la., Bradford. . . .Salford RC Diocesan Trustees propose erection of prim. sec. at Clare-rd., Levenshulme. . . . Bentley Building Co. Ltd. propose erection of 16 flats/16 gar-

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

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ages at Spath-rd., Didsbury. . . . Saul Goldstone proposes erection of poultry processing factory at Collingham-st. . . . RC Authorities propose extension to St. Vincent de Paul Prim. sch., Openshaw.

MIDDLESBROUGH.—Corporation Planning Com. has provisionally approved an outline scheme for the redevelopment of 11/55 Dundas-st. for the Metropolitan Railway Surplus Land Co. Ltd. New shops and offices are to be built, and the work, est. to cost £500,000, will take three years to complete. Architects are Evans, Cartwright & Woollatt of Nottingham. . . . Middlesbrough Co-op Society Ltd. are to modernise their shop premises at Coniston-gr., and convert the Corporation-rd. branch into a self-service centre.

NEWCASTLE-ON-TYNE.—City C is being recommended to erect single-storey sheds of 40,000 sq. ft. at Newcastle Quay. Work is not expected to start for about 18 months. City E is P. Parr. . . . Newcastle Regional Hospital Bd. are to extend their headquarters at Benfield-rd., and sketch plans have been prepared.

NEWPORT (Mon.).—New blocks to hold more than 400 beds are to be built on the 17-acre site of the Royal Gwent Hospital at Newport, Mon. The Welsh Regional Hospitals Bd. are to increase the number of beds at the hospital from 264 to 671. The scheme will entail the building of an obstetric unit, surgical unit, operating theatres, wards and kitchens over a number of years, with parts of the existing building being demolished.

NOTTINGHAM.—Geo. Wimpey & Co. Ltd. propose erection of 144 houses at Brookthorpe-way, and 108 houses/garages at Westerfield-way. . . . J. H. Dolby (Estates) Ltd. propose erection of 28 flats at Redbourne-dr. . . . Following for CC:—Swimming bath at Tuxford, and residential youth training centre at Ollerton.

PRESTON.—Calgary & Edmonton Land Co. Ltd. propose block of shops and offices at Fishergate.

RYDE (Isle of Wight).—Columbia Products Ltd. plan to build a factory employing about 350 people.

RYTON (Co. Durham).—UDC have received sanction from Ministry to erect 28 houses at Hardman-gdns., Park View-gdns. and Greenside.

ST. HELENS.—RC Authorities propose erection of new RC church, presbytery and prim. sch. at Fleet-la.

SALISBURY.—Permission is being sought by City C to proceed with Cattle Market scheme at Scammells-rd. . . . Salisbury Group Hospitals Management Committee has approved in principle proposed single-storey extension to Salisbury Infirmary's x-ray dept. A 'T'-shaped single-storey extension is envisaged on a site near the tennis-courts, to provide offices, rest room and toilets. Details of the scheme are being re-examined for submission to Regional Hospital Bd.

SHREWSBURY.—TC has approved the first stage of its largest single development—the £1,000,000 Laing plan for the old Smithfield site. The stage will provide 42 shop units and an eight-storey office block. The development would remove the eyesore of the old cattle market—revised plans for a new cattle market have been approved by the Council.

SKELMERSDALE.—UDC propose housing development for Liverpool overspill.

SKIPTON.—RDC propose erecting 40 bungalows during 1960-64 on various sites.

SOUTHAMPTON.—Wessex Regional Hospital Bd. has agreed to develop Coldeast Hospital—as suggested by MoH.

SOUTH SHIELDS.—Newcastle Regional Hospital Bd. are to erect a two-storey sanitary annexe at Ingham Infirmary. . . . MoE have approved TC's scheme for Whitelease infants' sch. Architect is J. Smeds.

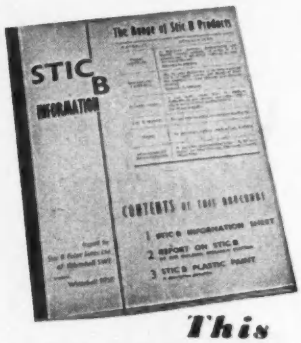
STOCKTON-ON-TEES. — Detailed plans have been prepared for 52 houses at Norton Hill estate for Lane, Fox & Co. Ltd. . . . Messrs. A. Bell Ltd., Ross-rd., Stockton, are to erect a garage and office block at Ross-rd.

SUNDERLAND.—TC is to sell 7,700 sq. ft. of land in the East Cross Street redevelopment area to Messrs. J. H. Ainslie & Co. Ltd. for proposed industrial developments. . . . L. R. Quenet, 24 Thorndale-rd., Sunderland, is to lease land at Thorney Close estate, Sunderland, for the erection of six shops. . . . The Portsmouth and Sunderland Newspapers Ltd. are to carry out major alterations to their premises at Bridge-st. No plans have yet been submitted to the local authority for approval. . . . W. & T. R. Milburn, 4 Grange-terr., Sunderland, are the architects for proposed shops at Yorke-st. for William Robson (Brewers) Ltd. . . . Plans are being prepared by Newrick & Blackbell, 58 John-st., Sunderland, for the erection of a warehouse between Woodbine-st. and Wear-st., for A. A. Jobling Ltd., and new Lloyds Bank at junction of Sea-rd. and Maud-st. . . . R. Eggleston, 2 Tunstall-rd., Sunderland, is the architect for offices, store and workshop at Hay-st. and Wilson-st. north for Redhead and Brown. . . . Middleton and Co., builders and contractors, are to extend their offices at Queen Alexandra Bridge approach. . . . TC is being recommended to construct an access road to proposed 75 acres trading estate at North Hylton-rd. Cost will be £15,000.

THORNABY-ON-TEES.—Thomas Bell & Co. (Contractors) Ltd., Frederick-st., Thornaby-on-Tees, are to erect an office block to plans by J. V. Spencer, 171 Albert-rd., Middlesbrough.

TILEHURST (Berks).—Approval has been given for the construction of Tilehurst prim. sch. Est. £76,012.

TYNEMOUTH.—M. J. Liddell & Sons, 36 Great North-rd., Newcastle-on-Tyne, who are already carrying out considerable housing developments in the Tynemouth area, have submitted proposals to the local Council for developing the Beaconsfield site. These include the erection of a hotel, with 100 bedrooms and 270 luxury flats in three-storey blocks. Consideration of the scheme has been deferred, pending information from another firm interested in the site. . . . Boro' Engineer (D. M. O'Herlihy), 16 Northumberland-sq., North Shields, has prepared plans for 147 houses and eight flats at Chirton Grange East.



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WAKEFIELD.—Leeds Regional Hospital Bd. propose development at Manygates Hospital. Est. £127,000.

WALLINGFORD.—BC are considering plans to build block of 20 modern self-contained flats for old people. Est. £42,000.

WANTAGE. — MH&LG has approved RDC's 1960 programme of 47 dwellings. . . . MH&LG has allowed Gavaghan McAlpine's appeal against RDC's refusal to permit erection of 14 dwellings on land at Bessels Way, Blewbury.

WASHINGTON (Co. Durham).—Arthur & Kirkup, 13 Swinburne-st., Gateshead, are the architects for proposed offices and workshops at Springwell for Messrs. J. Roulstone Ltd., Railway Arches, Pilgrim-st., Newcastle-on-Tyne.

WASHINGTON (Co. Durham).—UDC is to submit further plans to the MH&LG for building new sewage disposal works. Cost will be about £140,000, and constg. engrs. are D. Balfour & Sons, 145 Pilgrim-st., Newcastle-on-Tyne. . . . Thomas Armstrong Ltd. are seeking permission to carry out housing developments at Washington Moor and on land adjoining the Raft Yard.

WESTBURY (Wilts.).—Associated Portland Cement & Manufacturing Co. Ltd. are to proceed with plans for a factory—producing 2,000 tons of cement per year—on a site off Trowbridge-rd. Plans are to be submitted to MH&LG for approval.

WHICKHAM (Co. Durham). — Shield Brothers, builders and contractors, Swalwell, are seeking permission to erect offices, workships and garages on three acres of land at Market-la., Swalwell. Architects are Mauchlen, Weightman & Elphick 12 Cavillerow, Newcastle-on-Tyne. . . . Harry Kindred Ltd., 371 West-rd., Newcastle-on-Tyne, are to erect houses and bungalows at The Crescent, Sunniside.

WHITEFIELD.—Lancs. EC propose erection of new four-form entry sch.

WHITEHAVEN.—TC is to spend £195,000 on improving water supplies to the Marchon chemical works.

WHITLEY BAY.—Subject to the scheme being approved by the planning authorities, it is hoped to start work this winter on a £500,000 scheme for a conference hall, flats, covered-in bus station, restaurant, modern parking facilities and a subway to the Links. The promoters are Rosspark (Links) Ltd.

WIGAN.—TC propose erection of 11-storey block flats and 73 houses at Highgate estate. . . . RDC propose housing development at Stoneygate-la., Wrightington.

WIGTON.—RDC approved plans for a TV broadcasting station at Brocklebank, Wigton, for ITA.

WILMSLOW.—National Trust propose improvements to 75 cottages at Styal. . . . Ches. CC propose new fire station at Altrincham-rd. . . . Grammar sch. for girls at Dean-row is proposed.

WILTON (Wilts).—Hardy & Son Ltd., Salisbury, have purchased 2½ acres of land at Wilton from CC.

WINDSOR.—TC are to discuss plans for a municipal caravan and camping site and for the adaptation of the River-st. site as a car park, shopping area, restaurant and roof garden.

WORKSOP.—Notts. CC propose erection of new fire station and control centre at Eastgate.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

AMERSHAM.—Two nine-storey rc frames at St. George's estate for RDC.—James H. Cox, architect. (A) The Modular Concrete Co. Ltd., Bedfont, Middx.

BEDFORD.—First stage of an inner road from Newnham-ave. to Polhill-ave., including foul and sw sewers, etc., for BC. (RA) Sydney Green & Sons Ltd., £102,250.

BILLINGHAM-ON-TEES.—Erection of a five-storey block of flats at Low Grange estate for UDC. (A) Wimpey & Co. Ltd., Orchard-hse., Fenwick-terr., Newcastle-on-Tyne, £71,868.

BLACKROD.—Firm price tenders for:—(1) 54 dwellings, with drainage, paths and

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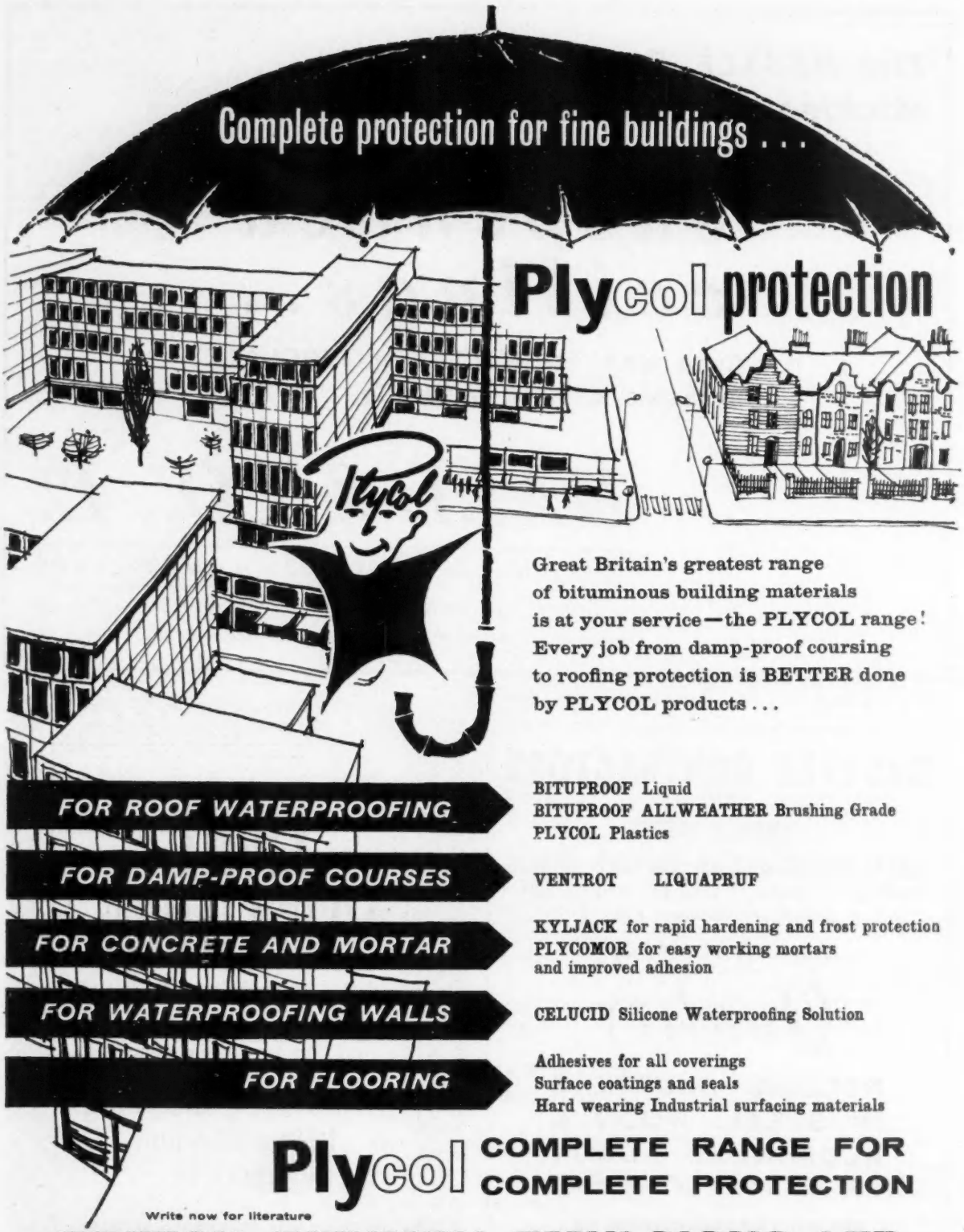

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site layout, and (2) construction of roads and sewers for UDC. J. C. Prestwich & Sons, Leigh, architects. (A) G. & J. Seddon Ltd., Little Hulton, nr. Bolton, £76,161, and G. Catterall & Sons, Adlington, nr. Chorley, £13,265, respectively.

BOURNEMOUTH.—Phase three of the Southbourne Cliff Works for CBC. Boro' E is E. C. Whitaker. (GD) Holland & Hannen and Cubitts (Great Britain) Ltd., £130,000.

CARLISLE.—Following for CBC:—Erection of 50 dwellings at Morton estate. (GD) Direct labour, £61,992.—Extensions to grammar sch. (stage 2). (GD) H. Cartner & Son, Carlisle, £73,585.

CHELTENHAM.—12 one-bedroom flats at Alstone-la. for BC. (A) Arthur Bowd Ltd., £20,363.

HARROGATE.—Erection of a block of offices on site of Berkeley Hotel at 35 Victoria-ave. for Mercantile Credit Co. Ltd. Clifford Tee & Gale, architects. Reynolds & Young, quantity surveyors. (A) Walter G. Birch (Harrogate) Ltd.

HIGH WYCOMBE.—Reconstruction of premises ot Queen's-sq. for Sketchleys Ltd. Brocklehurst, Cooper & Williamson, High Wycombe, Bucks, architects. (A) J. M. Jones & Sons Ltd., Maidenhead.

JARROW.—Erection of RC prim. sch. (320 pupils), at Ayr-dr., Jarrow. Architect is D. Brown, 10 Lambton-rd., Jesmond, Newcastle-on-Tyne. (A) Thomas Curry & Son, Meldon-st., Newcastle-on-Tyne.

LANCS. — Following for EC:— Boiler house extension and adaptations at I. M. Marsh Training College, Liverpool. (A) R. Costain & Son (Liverpool) Ltd., £19,531.—Infants/jun. sch. at Grange Valley, Haydock. (A) A. H. Anderson Ltd., London, £51,160.—Additional classrooms at county sch., Rawson-rd., Crosby. (A) Tysons (Contractors) Ltd., £28,613.—Two science laboratories at boys' county sec. sch., Widnes. (A) D. Lesley Ltd., Liverpool, £19,800.—Adaptations/extension at grammar sch., Audenshaw. (A) E. Marshall & Sons Ltd., Ashton-under-Lyne, £83,921.—Infants' dept. at county sch., Culcheth, Golborne. (A) G. Moss & Sons Ltd., Leigh, £37,285.—Infants/jun. sch. at county sch., Heywood. (A) J. Laing & Son Ltd., Carlisle, £101,027.—Infants/jun. sch. at Hilton-la., Worsley. (A) Vic Hallam Ltd., Langley Mill, £47,976.—Sub-normal childrens' sch. at Borsdain Brook, Hindley. (A) Vic Hallam Ltd., Langley Mill, £56,564.

LEEDS.—Following for TC:— 12 maisonettes at Wykebridge estate. (A) Reema (Chesterfield) Ltd., £23,280.—10-storey block flats/34 garages at Ebor Gardens. (A) Reema Construction Ltd., Salisbury, £121,442.

LEWISHAM.—Erection of 15 maisonettes, 3 flats and 12 garages at Lee Church-st. and Dacre Park for MBC.

Rowley Bros., Ltd.	£47,103
T. Cutler and Sons Ltd.	46,712
Mullen and Lumsden Ltd.	46,560
W. J. Simms, Sons and Cooke Ltd.	46,432
A. Roberts & Co. Ltd.	46,429
Thomas & Edge Ltd.	46,284
M. J. Gleeson (Contractors) Ltd. ...	46,112
Halse & Sons Ltd.	45,906
T. R. Roberts (Builders) Ltd. ...	45,174
Henry Kent (Builders) Ltd.	43,484
Greenaway & Son Ltd.	43,204
(GD) Herbert Richardson & Sons Ltd.	43,136

LEWISHAM.—Erection of 20 maisonettes and seven garages at Stanstead-rd. for MBC.

M. J. Gleeson (Contractors) Ltd. ...	£55,560
T. Cutler & Sons Ltd.	53,581
W. J. Simms, Sons and Cooke Ltd.	53,271
Rowley Bros. Ltd.	53,201
Thomas & Edge Ltd.	52,606
Mullen & Lumsden Ltd.	52,584
T. R. Roberts (Builders) Ltd. ...	51,727
J. & R. Rooff Ltd.	50,999
W. R. Oldham Ltd.	49,900
Greenaway & Son Ltd.	49,521
(GD) Henry Kent (Builders) Ltd. ...	49,165

LIVERPOOL.—Alterations to outpatients' dept. at Waterloo Hospital for Liverpool Regional Hospital Bd. (A) C. & G. L. Desoer Ltd., £36,190.

LIVERPOOL.—Construction of reservoir, including dam, in connection with Tryweryn water supply scheme, for Water Com. (A) Tarmac Civil Engineering Co. Ltd., £2,503,506.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended June 24:— *Building work:* Burderop Park, Wilts; Holbrow Constructions Ltd., Love-la., Cirencester, Glos.—Baydon, Warwicks; Bosworth & Wakeford Ltd., Lawford-rd., Rugby, Warwicks.—Akrotiri, Cyprus; Humphreys Ltd., 199 Knightsbridge, London, SW7.—Henlow, Beds; M. & F. O. Foster & Co. Ltd., York-rd., Hitchin, Herts.—Marham, Norfolk; Kerridge (Cambridge) Ltd., Sturton-st., Cambridge.—Gibraltar; Whatlings Ltd., 10 Woodside-cres., Glasgow, C3. *Artificer's work:* Duxford (Cambridge); Tooley & Youngs Ltd., High-st., Stalham, Norfolk.—Lindholme (Yorks); G. Chessman Ltd., Scotter-rd., Scunthorpe, Lincs. *Electrical installations:* Cyprus; Cyprus Building & Road Construction Corporation Ltd., POB 563 Cyprus, Nicosia.

LONDON CC.—Improvements, redecorations and major repairs to Addison county prim. and county sec. schools, Hammersmith. (A) Sheppard & Short Ltd., Wembley, Middx,, £22,574.—Provision of additional accommodation for the teaching of science at Hackney Downs sch., Hackney. (A) H. C. Horswill Ltd., East Ham, £27,532.—Painting works at Holloway sch., Islington. (A) Holland & Hannen and Cubitts Ltd., St. Pancrass, £10,795.—Construction of new arts and crafts room, etc., at Shirley county prim. sch., Croydon. (A) Grant & Ptnrs., Ltd., Lewisham, £23,345.—Adaptations and improvements at South Hackney county sec. sch., Hackney. (A) O. H. Groves & Co. Ltd., Bermondsey, £14,483.

(GD) LONDON (Admiralty). — Contracts over £1,000 in value:—*Nottingham:* Alterations and redecorations. G. A. Pillatt & Son Ltd., Nottingham. *Yorkshire:* Alterations to houses. Walter G. Birch (Harrogate) Ltd., Harrogate. *Hampshire:* Laboratory and office accommodation. R. J. Winnicott Ltd., Portsmouth. *Fife:* Cable trenching. George Smith & Sons, Kirkcaldy. *Northern Ireland:* Resurfacing roads. R. J. Maxwell & Son Ltd., Coleraine. *Fife:* Constructional and ancillary work. J. R. and A. Adam Ltd., Lochgelly. *Dumbartonshire:* Oil storage. John Howard & Co. Ltd., London, SW1.

(GD) LONDON (British Railways).—Contracts placed by Eastern Region:— Carter-Horseley (Engineers) Ltd., Merebank-la., Waddon, Croydon, Surrey, for repairs to main girders and flooring of underbridge No. 1837 between Whittlesea and Peterborough (East).—W. Malthouse Ltd., Cliffe Field-wks., Derbyshire-la., Sheffield 8, for provision of new staff accommodation building in Nos. 9 and 10 carriage sidings and Nunnery carriage sidings at Sheffield (Victoria).—Tarslag Ltd., Upper Wortley-rd., Rotherham, for resurfacing of roadways in the Sheffield district.—James Kilpatrick & Son Ltd., 164/168 Westminster Bridge-rd., London, SE1, for supply, delivery and erection of electrical installation, MV distribution, fuelling installation, control wiring for washer, etc., at Billet Sidings, Stratford, E15.—Matisa Equipment Ltd., Hanworth-la., Chertsey, Surrey, for supply and delivery of two Matisa ballast cleaning machines and associated equipment.

(GD) LONDON (British Railways).—New London Midland contractr:—The Fairfield Shipbuilding & Engineering Co. Ltd., for supply fabrication and delivery of steelwork and composite deck units for Bridge No. 49 on the Trent Valley Line.—Leonard Fairclough Ltd., 3 Chapel-st., Adlington, Lancs., for main offices and amenties for Wavertree parcels depot, Liverpool.—W. H. Heywood & Co. Ltd., Ashley-pl., London, SW1, for renewal of roof coverings to main shed at the motive power depot, Birkenhead South.—The Staffordshire Public Works Co. Ltd., Victoria-wks., Campbell-rd., Stoke-on-Trent, for concreting floor of the melting furnace building in Crewe locomotive works.—Arundel Painting Contractors Ltd., for cleaning and painting of goods warehouse and offices at Manchester-rd., Bolton.—Edward Wood & Sons Ltd., 70 Park-st., Derby, for new paint shop and conversion of existing paint shop into diesel parts store at locomotive works, Derby.—Mellowes & Co. Ltd., Bridge-st., Sheffield, for renewal of roof coverings at Upperby carriage shed, Carlisle.

(GD) LONDON (British Railways).—Contract placed by North Eastern Region:— Supply, spreading and compacting of ballast filling at Healey Mills marshalling yard; Mitchell Construction Co. Ltd., Peterborough.—General repair work to the Swing Bridge at Goole; C. Campling (Goole) Ltd.—General building works at Holgate Villa, York; T. Belt & Son Ltd., York.—Extensions and alterations to station buildings at Newcastle Central station; Tarslag Ltd., Stockton-on-Tees.—Provision of piling to foundations of Cod Beck bridge, nr. Thirsk; John Gill Contractors Ltd., SW1.—Repairs to roadways at stations and depots in Hull area; Pavior Construction Co. Ltd., Shipley.

(GD) LONDON (British Railways).—New contracts placed by Western Region:— British Insulated Callender's Cables Ltd., Belvedere, Kent, for delivery and installation of high voltage cables at Bristol (Dr. Days).—British Insulated Callender's Cables Ltd., Belvedere, Kent, for delivery and installation of high voltage cables at Bristol (Temple Meads).—William Cowlin & Son Ltd., Stratton-st., Bristol 2, for construction of casting shed at Taunton concrete-wks.—Grant Lyon & Co. Ltd., Bute-st., Cardiff, for provision of earthworks, permanent way, fencing, etc., for secondary sorting sidings in connection with stage IV of the Margam marshalling yard scheme, Port Talbot.—West's Piling & Construction Co. Ltd., Harmondsworth, West Drayton, Middlesex, for carrying out piling and the construction of rc foundations for the signal box and amenity blocks at Port Talbot.—Fairfield Shipbuilding & Engineering Co. Ltd., Chepstow, for supply of steelwork, etc., for the extension to the platform roof at Slough.—S. B. Whitehouse, Leamore, Walsall, Staffs., for brush painting goods outwards shed and various offices at Hockley goods depot, Birmingham.—Sid Dagnall & Son Ltd., Fulham-rd., Sparkhill, Birmingham 11, for supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Acocks Green & South Yardley Station.

(GD) LONDON (Metropolitan Police).—Result of tenders for internal and external decoration works:—External painting, internal cleaning and redecoration at Putney section house and married quarters. Galbraith Bros. Ltd., £4,030.—Reinstatement works and improvements at Oxgate Court, NW2. R. J. Rowley Ltd., £4,966.—External painting, repairs and internal cleaning and redecoration at Leman-st. police station and section house. Druce & Co. (Decorations) Ltd., £987.—External painting and repairs at Connaught House, Muswell Hill. J. H. & W. Heal Ltd., £738.—External painting, repairs and internal redecorations at Finchley police station and Wentworth Lodge. Buckingham & Sons Ltd., £1,125.—External painting and repairs at Edgware police station. Druce & Co. (Decorations) Ltd., £610.—External painting and repairs at Roding Lodge. A. G. Barton & Sons, £955.—External painting, repairs and internal redecorations at Pinner police station and married quarters. H. Pickrill Ltd., £1,104.—External painting, repairs and internal redecorations at Chapel Walk, Hendon, and Victoria-rd., Mill Hill. Buckingham & Sons Ltd., £989.—External painting, repairs and part internal redecorations at 'Aldershaw,' Georges-rd., N7, and Caledonian-rd. police station. W. J. Cooper (Barnsbury) Ltd., £1,395.—External painting and part internal redecorations at The Gladeway, Waltham Abbey. A. Munn & Son, £911.—Internal redecorations at Great Marlborough-st. magistrates court. Websters (Builders) Ltd., £2,531.—External painting and repairs at Aliens' Registration office and 14 Swallow-st. Websters (Builders) Ltd., £1,075.—Erection of ladies' changing room and lavatory at No. 1 sports club, Imber Court, East Molesey. Ransoms (Hook) Ltd., £1,176.—External painting at Bridge House & 169/177 Adelaide-rd., NW3. J. Price (King's Cross) Ltd., £1,848.—Reinstatement as house at Peel-dr., Hendon. R. Mansell Ltd., £1,978.—Heating alterations and builder's attendance at Peel House training sch. R. Mansell Ltd., £1,039.—Oil-fired boiler installation and builder's attendance at Gilmour House section house. John Hoare & Son., £615.—Oil-fired boiler installation and builder's attendance at Southwark Police Station. John Hoare & Son, £560.

(GD) LONDON (War Dept.).—Contracts

placed for week ended June 17:—*Berkshire* (Didcot): Heating. Cradley Boiler Co. Ltd., Cradley Heath. *Berkshire* (Arborfield): Miscellaneous. Davies & Rentowl (Aldershot) Ltd., St. Albans. *Berkshire* (Shrivenham): Building. R. J. Leighfield & Sons Ltd., Swindon. *Hampshire* (Aldershot): Roadwork. Universal Highways Ltd., Staines. *Kent* (Dover): Roadwork. P. A. Barden & Sons Ltd., Maidstone. *Leicestershire* (Old Dalby): Painting and redecorating. T. E. Cundy & Son Ltd., Leicester. *Northamptonshire* (Weedon): Painting and decorating. Donald Humberstone & Co., Ltd., Louth. *Somerset* (Yeovil): Miscellaneous. H. Hoskings Ltd., Langport. *Worcestershire* (North Worcs.): Miscellaneous. J. Herbert Smith (Kidderminster) Ltd., Kidderminster. *Yorkshire* (Catterick Camp): Building. R. Dodds & Sons, Richmond, Yorks.

(GD) LONDON (War Dept.).—Contracts placed for week ended June 10:— *Cumberland* (Carlisle): Playing fields. Sportworks Ltd., Glasgow C3. *Dorset* (Bovington Camp): Building. James Drewitt & Son Ltd., Bournemouth. *Hampshire* (Aldershot): Building. E. J. Logan (Putney) Ltd., London, SW15.—(Crookham): Hutting. R. R. Radford, Farnham.—(Winchester): Heating. Arthur Scull & Sons Ltd., London, WC2. *Perthshire* (Perth): Miscellaneous. Thos. J. Paxton, Perth.

MAIDSTONE.—24 old people's flats at Bell-rd., Park Wood estate for TC. (A) H. Richardson & Sons, £29,124.

MANCHESTER. — Alterations/extensions at Langdale Hall & Dalton Hall, Victoria Park, for Manchester University Senate. (A) L. Brown & Sons Ltd., Wilmslow, Ches.—Showroom/staff accommodation/stock rooms at Northenden for Manchester & Salford Co-operative Soc. Ltd. (A) Direct labour.

MANSFIELD.—Factory extension at Corporation-st. for R. L. Jones & Co. Ltd. (A) Messrs. Rouse, Mansfield Woodhouse.

MARYPORT.—Erection of 12 houses and five bungalows at Crosby for North-Eastern Housing Assn., Curzon-hse., Maryport. (A) John Twiname Ltd., Allerdale-hse., Brigham, Cumberland.

NEWCASTLE-ON-TYNE.—Erection of 147 flats in three-storey blocks for City C. City A is G. Kenyon. (A) John Twiname Ltd.—Erection of branch library at West Denton for City C. Architect is Henry Wood. (A) Cussins Ltd., The Drive, Gosforth, £18,772.—Erection of soft drinks factory at Back Condercum-rd. for H. Rowe Ltd. (A) W. N. Rowe Ltd.

NOTTINGHAM.—Factory extensions at Bulwell for Bulwell Finishing Co. Ltd. (A) J. F. Hoult, Station-rd., Bulwell.

PLYMOUTH.—Erection of 16 one-bedroom type 'E' flats at Pembroke-st. for City C. City A is H. J. W. Stirling. (A) Selleck, Nicholls & Co. Ltd., St. Austell, Cornwall, £24,629.

POOLE.—Rc frame for six-storey ward block at Poole General Hospital for Wessex Regional Hospital Bd. Stewart & Gilgour, architects. Alan Marshall, engrs. (A) The Modular Concrete Co. Ltd.

PRESTON.—Admin. block for UK Atomic Energy Authority. (A) T. G. Construction Co. Ltd., London, W1.

SALFORD.—Firm price tenders for erection of Cromwell sec. mod. sch. (phase II) for City C. Cruickshank & Seward, Royal London House, 196 Deansgate, Manchester, architects. Quantities by M. C. G. Seward, ARICS. (A) Wm. Fearnley & Sons (Salford) Ltd., Constance-wks., Eccles New-rd., Salford 5, £164,570.

SHEFFIELD.—New factory at Albert-rd for Dixon Pitchfork Ltd. (A) J. C. Plant Ltd. Sheffield.

STOCKTON-ON-TEES.—Erection of 60 flats and maisonettes at Victoria housing site for TC. (A) Moore & Cartwright Ltd., High-st., Norton-on-Tees, £98,746.—Rc frame, suspended floors and roofs, etc., for proposed Hardwick sec. mod. sch. for EC. (A) Tarslag Ltd., £24,150.—Erection of 16 single persons' houses at Hardwick estate for TC. Architect is T. C. Hartley, Stockton. (A) R. B. Bainbridge Ltd., High-st., Stockton, £17,409.—Erection of 35 houses at Hardwick estate for TC. (A) L. Brown & Son, £53,432.

STOKE NEWINGTON.—Erection of Brownswood branch library for MBC. (A) Direct labour, £25,260.

WESTMINSTER. — Erection of offices, shops and mews flats nr. Sloane-sq. and Kings-rd., Chelsea, for Cadogan Estates Co. J. Douglass Mathews & Ptnrs., architects. (A) Holloway Brothers (London) Ltd. Est. £½m.

WINDSOR.—Reconstruction of 14 Peascod-st. for Sketchleys Ltd. Brocklehurst, Cooper & Williamson, architects. (A) J. M. Jones & Sons Ltd. (negotiated contract).

YORK.—Erection of crematorium and detached superintendent's house at Bishopthorpe-rd. for City C. City A is E. Firth. (A) Sorrell (York) Ltd., 95 Heworth Village, York, £56,842.

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Fixing the spacer frame. *Photo by kind permission of Messrs. Hepworth & Grandage Ltd., Bradford.*

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

REIGATE
BOROUGH.

1 BLOCK OF 16 MAISONETTES WITH STORES UNDER AND 1 BLOCK OF 10 MAISONETTES, THE DOME ESTATE (NORTH-STREET), REDHILL.

FIXED-PRICE TENDERS invited based upon Bills of Quantities for substructure and site works, and lump sum for superstructure. Form of Tender, Specification, Bills of Quantities and Plans obtainable from Borough Surveyor, Town Hall, Reigate, on payment of deposit of £2 2s. Closing date for receipt of Tenders, noon, 21st JULY, 1960.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.

ELY CITY
URBAN DISTRICT COUNCIL.

PROPOSED DEMOLITION OF 49 SILVER-STREET, ELY.

The Council invite TENDERS for the DEMOLITION of this large dwelling house and clearance of the site.

Specification, Form of Tender, etc., may be obtained from the Engineer and Surveyor, Urban Council Offices, Lynn-road, Ely, upon payment of a deposit of one guinea which will be refunded when a bona fide tender is received. Cheques should be drawn in favour of Ely Urban District Council.

Tenders must be enclosed in official envelope provided for the purpose, sealed and delivered to me not later than SATURDAY, 16th JULY, 1960.

J. E. WATKINS,
Clerk of the Council.

MERTHYR TYDFIL
COUNTY BOROUGH.

TENDERS FOR ERECTION OF NEW OMNIBUS GARAGE. STAGE II.

Applications are invited from Building Contractors wishing to tender for the above. The work comprises the following :—

CONSTRUCTION OF NEW SINGLE STOREY WORKS BUILDING of 24,000 sq. ft. approx., together with BOILER HOUSE AND ALL SERVICES, DRAINS AND PATHS AND COMPLETION OF YARDS.

Applications to tender must reach me by TUESDAY, 12th JULY, and must be accompanied by a deposit of £3 3s. returnable on receipt of a bona fide Tender. Cheques to be made payable to Merthyr Tydfil Corporation.

When tendering the Tenders must be in plain sealed envelopes marked "New Omnibus Garage—Stage II." The Council do not bind themselves to accept the lowest or any Tender and will not defray any expenses incurred by those tendering.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.

WOKINGHAM
BOROUGH.

ERECTION OF DWELLINGS.

TENDERS are invited for the ERECTION OF 21 DWELLINGS in traditional construction on Commons-road Housing Site.

Plans, specifications, etc., may be obtained from the Borough Surveyor, Town Hall, Wokingham, on payment of deposit of £2 2s., returnable on submission of bona fide Tender.

Tenders must be sent to me, in the envelope provided, not later than 22nd JULY, 1960.

L. GODDARD SMALLEY,
Town Clerk.

Town Hall,
Wokingham,
Berks.
17th June, 1960.

ESSEX
COUNTY COUNCIL.

CHIGWELL HIGH VIEW E.S.N. SCHOOL, LAUNDRY.

Contractors wishing to submit a FIRM PRICE TENDER for the ERECTION OF THE ABOVE should forward their names, from which a panel will be chosen and provided with tender documents.

The work will be in traditional construction, estimated cost £2,000.

Applications to reach the undersigned not later than 9th JULY, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

EALING
BOROUGH.

CONSTRUCTION OF EIGHT FLATS, WINDSOR-ROAD, W.5.

Forms of TENDER obtainable from Borough Surveyor, Town Hall, W.5, upon payment of deposit of £5 returnable on receipt of bona fide Tender, addressed to Town Clerk, Town Hall, Ealing, W.5. Closing date 9 a.m., 21st JULY, 1960.

SOUTHEND-ON-SEA
COUNTY BOROUGH.

PROPOSED ERECTION OF ONE THREE-STOREY BLOCK OF FLATS AND MAISONETTES, MENDIP-CRESCENT, WESTCLIFF-ON-SEA.

TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than MONDAY, 11th JULY, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The Contract comprises the ERECTION OF ONE THREE-STOREY BLOCK COMPRISING THREE ONE-BEDROOM FLATS and THREE TWO-BEDROOM MAISONETTES, OF BRICK CONSTRUCTION WITH TILED ROOFS and WORKS INCIDENTAL THERETO.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit the Drawings, Specification and Form of Tender will be forwarded, and it is anticipated that these will be available mid-July, 1960. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender or the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

LISKEARD
BOROUGH.

The Borough Council of Liskeard propose to BUILD 66 HOUSES, 15 BUNGALOWS AND 30 GARAGES etc., as the second stage of development of the Housing Estate at Lake-lane.

Contractors who wish to be considered for inclusion in a list of selected TENDERERS for the above Dwellings, etc., together with Road Works, Drainage and other Site Works, are invited to send their names to:—

G. R. Vaughan Ellis, A.R.I.B.A., Chartered Architect, National Provincial Bank Building, Trehawke House, Liskeard, Cornwall, by not later than 11th JULY, 1960.

Such applications are to be accompanied by brief details of works of a similar nature of which the Contractors have had adequate experience in the past.

Contractors to be invited to Tender will be selected by the Council who may add others.

R. SCARD MORGAN,
Town Clerk and Solicitor.

WOLVERHAMPTON
COUNTY BOROUGH.

ERECTION OF DWELLINGS AND GARAGES.

Building Contractors are invited to TENDER for the ERECTION OF 58 DWELLINGS of various types and 30 BRICK GARAGES at Essington-way, Willenhall-road North Estate. The foundations will be reinforced concrete rafts.

Applications for Form of Tender and Bills of Quantities should be made to the Borough Engineer, Town Hall, Wolverhampton, by 11th JULY, 1950, accompanied by a deposit of Two Guineas which will be refunded upon receipt of a bona fide Tender.

Tender documents, which will be sent to applicants as soon as possible, will indicate the date by which Tenders are to be submitted.

GILLINGHAM
BOROUGH.

REDEVELOPMENT AREA, BRITTON-STREET.

FIXED PRICE TENDERS are invited for the ERECTION OF 39 DWELLINGS INCLUDING OUTBUILDINGS AND 37 CAR PORTS COMPRISING 3 BLOCKS OF 10 FOUR-STOREY MAISONETTES AND 1 BLOCK OF 8 FOUR-STOREY MAISONETTES TOGETHER WITH 1 SHOP AND FLAT at Britton-street, Gillingham, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender and may inspect the drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 11th JULY, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s. 0d.) made payable to Gillingham Corporation. This sum will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders, in sealed envelopes supplied, and endorsed "Tenders for 39 Dwellings, Britton-street," must be delivered to the undersigned by not later than NOON on 8th AUGUST, 1950.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.

BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.

CONTRACT 724—9 TWO-STOREY DWELLINGS, TRITTIFORD-ROAD, BILLESLEY.

The House Building Committee invite FIRM PRICE TENDERS for the ERECTION OF THE ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham 1, to whom all cheques should be made payable. Applications should be made by 5th JULY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 NOON on FRIDAY, the 5th AUGUST, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

CHATHAM
BOROUGH.

HARDSTOWN REDEVELOPMENT. INVITATION TO BUILDING CONTRACTORS.

TENDER documents for this work will be available shortly and Building Contractors who wish to Tender are invited to submit their names to Mr. J. A. T. Richards, Borough Engineer and Surveyor, Town Hall, Chathagn, Kent, together with a statement of recent contracts carried out, and a deposit of two guineas which will be returned on receipt of a bona fide Tender.

The project consists of 21 HOUSES IN TRADITIONAL CONSTRUCTION, One seven-storey block containing 36 two-bedroom maisonettes and seven old people's flatlets. One five-storey block containing 16 three-bedroom maisonettes, and three old people's flatlets, together with ancillary external works. Roadworks will form a separate contract.

The Council does not bind itself to accept the lowest or any Tender.

ROWLAND HEWNES,
Town Clerk.

Town Hall,
Chatham.
24th June, 1960.

NORTHAMPTON
COUNTY BOROUGH.

Contractors wishing to TENDER for ERECTION OF DALLINGTON PARK PAVILION-CHANGING ACCOMMODATION, Northampton, should apply to the Borough Architect, Guildhall, Northampton before 11th July enclosing crossed cheque (payable to "Northampton Corporation") for £2 2s. 0d. This sum will be returned if a bona fide Tender is received by 4th AUGUST.

C. E. VIVIAN ROWE,
Town Clerk.

MIDDLETON
BOROUGH.

TENDERS are invited for the PAINTING OF THE TEMPORARY HEALTH AND EDUCATION OFFICES, Town Hall, Middleton.

A Specification and conditions of contract may be obtained from the Borough Architect, Town Hall, Middleton, Nr. Manchester.

Tenders, in plain sealed envelopes and endorsed "Painting of Temporary Health and Education Offices," are to be received by the undersigned not later than FIRST POST on MONDAY, 18th JULY, 1960.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Nr. Manchester.
27th June, 1960.

ESSEX
COUNTY COUNCIL.

CRANHAM HALL MEAD COUNTY SECONDARY SCHOOL, HORNCHURCH. SCHOOLKEEPER'S HOUSE.

Contractors wishing to submit a firm price TENDER for the ERECTION OF THE ABOVE should forward their names, from which a panel will be chosen and provided with Tender documents.

The work will be in traditional construction, estimated cost £2,200.

Applications to reach the undersigned not later than 9th JULY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

CONISBROUGH
URBAN DISTRICT COUNCIL.

ERECTION OF ONE COMMUNITY HALL IN HICKLETON-STREET, DENABY MAIN.

TENDERS are invited for the ERECTION AND COMPLETION INITIALLY OF ONE "UNITY" TYPE COMMUNITY HALL.

Specifications and Contract documents may be obtained, and drawings and Conditions of Contract viewed, on application to C. Urch, Esq., Engineer and Surveyor, Council Offices, 5 High-street, Conisbrough, during normal office hours.

Applications should be accompanied by a cheque for £2 made payable to the Conisbrough U.D.C., which will be refunded on receipt of a bona fide Tender not subsequently withdrawn, and on return of all documents issued.

Tenders, in plain sealed envelopes and endorsed "Community Hall," to be delivered to the undersigned not later than 12 NOON on SATURDAY, the 16th JULY, 1960.

R. F. EDWARDSON,
Clerk of the Council.

Council Offices,
Low-road,
Conisbrough,
Nr. Doncaster.

ASHTON UNDER LYNE
BOROUGH.

CHARLESTOWN REDEVELOPMENT AREA.

Firm price TENDERS are invited for the ERECTION OF 90 ONE- AND TWO-BEDROOM FLATS IN ONE TEN-STOREY BLOCK, 54 TWO-BEDROOM FLATS IN FOUR THREE-STOREY BLOCKS AND 16 TWO-BEDROOM HOUSES TOGETHER WITH EXTERNAL SERVICES AND SITE WORKS.

Bills of Quantities, Specification and Form of Tender may be obtained from the Borough Surveyor, Municipal Offices, Ashton under Lyne on payment of a deposit of £3 3s. 0d. which will be returned on submission of a bona fide firm price Tender not subsequently withdrawn.

Firm price Tenders, sealed in the envelope provided, must be forwarded to the undersigned so as to be received not later than NOON on FRIDAY, the 22nd JULY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CHERTSEY
URBAN DISTRICT COUNCIL.

RE-ADVERTISEMENT.
CONTRACT 67A—TWO ABLUTION BLOCKS AND WARDEN'S OFFICE: HEATHERVALE CARAVAN PARK.

TENDERS are invited for the ERECTION OF TWO ABLUTION BLOCKS AND A WARDEN'S OFFICE at the above site, in sectional timber frame construction.

Tender documents may be obtained from the Engineer and Surveyor, "The Orchard," Staines-lane, Chertsey, on payment of one guinea deposit.

Tenders must be delivered to the undersigned not later than NOON on 20th JULY, 1960.

A. REX HERBERT,
Clerk of the Council.

Council Offices,
Chertsey,
Surrey.

MIDDLESBROUGH
COUNTY BOROUGH.

ADJUSTABLE STEEL SHELVING, CLOTHES AND TOOL LOCKERS AND SLOTTED ANGLES.

TENDERS are invited for the SUPPLY OF 202 BAYS OF ADJUSTABLE STEEL SHELVING, together with certain fittings, 116 steel clothes and tool lockers and 1,500 ft of slotted angles.

Forms of Tender from Borough Engineer, Municipal Buildings, Middlesbrough. Tenders to be returned in the envelopes provided to reach the TOWN CLERK not later than MONDAY, 11th JULY.

HUNTINGDON
RURAL DISTRICT COUNCIL.

TENDERS FOR LOCK-UP GARAGES.

TENDERS on a FIXED PRICE BASIS are invited for SIX LOCK-UP GARAGES WITH ASSOCIATED HARDSTANDING at Brampton.

Drawings, specifications and forms of tender may be obtained from K. A. Milner, Esq., L.R.I.B.A., of Messrs. Lea, Milner and Wardley, 4 Market-hill, Huntingdon, on deposit of two guineas which will be returned on receipt of a bona fide Tender.

Tenders should be returned in the envelopes provided so as to reach me not later than NOON on WEDNESDAY, 10th of AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender, and final acceptance will be subject to the approval of the Ministry of Housing and Local Government.

W. MIDWOOD,
Clerk of the Council.

Montagu House,
Huntingdon.
23rd June, 1960.

BEDFORDSHIRE
EDUCATION COMMITTEE.

PROPOSED COUNTY PRIMARY JUNIOR SCHOOL, BRICKHILL ESTATE, BEDFORD.

Building Contractors who wish to be considered to TENDER on the basis of a FIXED PRICE CONTRACT for the ERECTION OF THIS SCHOOL should submit their names to the County Architect, Shire Hall, Bedford, by 9th JULY, 1960.

The school will consist of single- and two-storey buildings of brick construction comprising EIGHT CLASSROOMS, ASSEMBLY HALL, KITCHEN, SANITARY ACCOMMODATION, etc., the total superficial floor area being 14,000 sq. ft. (approximate cost £54,000).

Bills of Quantities will be issued to the contractors selected to tender.

Heating Engineers and Electrical Contractors are also invited to submit their names by the above date for consideration to TENDER for the undermentioned sub-contracts in connection with the above :—

(a) ENGINEERING SERVICES.
(b) ELECTRICAL INSTALLATION.

The Committee does not bind itself to accept the lowest or any Tender.

BRENTFORD & CHISWICK
BOROUGH.

MAINTENANCE OF COUNCIL HOUSING ESTATES, INTERNAL AND EXTERNAL DECORATIVE REPAIRS.

TENDERS are invited for INTERNAL AND EXTERNAL REDECORATIONS TO FLATS at :—

Kent House, Hogarth-lane Estate, Ch.swick, W.4 (50 Dwellings, with Laundry, Workshop and Stores).

Form of Tender, General Conditions of Contract and Specification may be obtained from the Borough Engineer and Surveyor.

Tenders must be submitted not later than 12 NOON, FRIDAY, 8th JULY, 1960.

W. F. J. CHURCH,
Town Clerk.

MORECAMBE AND HEYSHAM
BOROUGH.

PROPOSED TWO SHOPS AND TWO FLATS—BRANKSOME-DRIVE ESTATE.

TENDERS are invited for the ERECTION OF TWO SHOPS AND TWO FLATS IN ONE BLOCK.

Specifications, Bills of Quantities and Form of Tender may be obtained from and plans inspected at the office of the Borough Engineer and Surveyor upon payment of a deposit of £2 which will be returned upon receipt of a bona fide Tender not subsequently withdrawn.

Tenders endorsed "Shops and Flats, Branksome-drive" must reach me by 9 a.m. WEDNESDAY, 20th JULY, 1960.

The lowest Tender will not necessarily be accepted.

ROGER ROSE,
Town Clerk.

BOURNEMOUTH
COUNTY BOROUGH.

TO HEATING SUB-CONTRACTORS.

TENDERS are invited, on a "FIXED PRICE" basis, for the REPLACEMENT OF EXISTING BOILERS FOR THE HEATING INSTALLATION AND HOT WATER SUPPLY FOR THE EXTENSIONS to OFFICES at 17 St. Stephen's-road, Bournemouth.

Firms wishing to tender for this work should make application to the Borough Architect, Room 106, Town Hall, Bournemouth, not later than 9th JULY, 1960.

Tenders to be received by me not later than 10 a.m. 18th JULY, 1960.

A. LINDSAY CLEGG,
Town Clerk.

SMETHWICK
COUNTY BOROUGH.

TO BUILDERS AND CONTRACTORS.
WIGORN HOUSE, LIGHTWOODS HILL.

The Housing Committee invite TENDERS FOR THE ERECTION OF EIGHT TWO-BEDROOM FLATS.

Applications for Bills of Quantities should be made in writing to the Borough Engineer and Surveyor, Council House, Smethwick, by 6th July, 1960, accompanied by a crossed cheque for £2 2s. 0d. made payable to the "Borough Treasurer, Smethwick." This amount will be refunded following receipt of a bona fide Tender.

Tenders on the forms provided and enclosed in the official envelopes must be delivered to the Town Clerk not later than 10 a.m. on THURSDAY, 28th JULY, 1960.

The Corporation is not bound to accept the lowest or any Tender.

E. L. TWYCROSS,
Town Clerk.

Council House,
Smethwick.
27th June, 1960.

DEPTFORD
BOROUGH COUNCIL.

TENDERS are invited for the ERECTION OF A HOUSE AND A SINGLE STOREY BLOCK OF OFFICES at Grove Park Cemetery, Marvels-lane, S.E.12. Forms of Tender and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, Deptford Town Hall, New Cross, S.E.14. Tenders, when completed, must be returned to the undersigned in the envelope provided not later than 4 p.m. on THURSDAY, 11th AUGUST, 1960. The drawings may be inspected at the Borough Engineer's office during normal working hours.

The Council does not bind itself to accept the lowest or any Tender.

ERNEST FIELD,
Town Clerk.

Deptford Town Hall,
New Cross, S.E.14.

HORNSEY
BOROUGH.

TENDERS are invited for the DEMOLITION OF 44 TERRACED HOUSES in Campsbourne-road and Myddelton-road, Hornsey, N.8.

Tender documents from the Borough Engineer and Surveyor, Town Hall, The Broadway, Crouch End, N.8. Tenders to be received by NOON on MONDAY, the 18th JULY, 1960.

W. B. MURGATROYD,
Town Clerk.

HUNTINGDONSHIRE
HEALTH COMMITTEE.

PROPOSED CLINIC AND ADMINISTRATIVE BLOCK, STANGROUND.

Contractors desirous of submitting a FIXED-PRICE TENDER for the above project are invited to submit their names to S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by not later than 12 NOON on FRIDAY, 8th JULY, 1960.

From the names submitted a panel of contractors will be selected to whom Tender documents will be sent. The closing date for Tenders will be 12 NOON on or about 12th AUGUST, 1960.

The building will be of single storey with load bearing brick walls, concrete strip foundations and flat roof of timber construction.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.
23rd June, 1960.

OXFORD CITY.

SUDENTS' HOSTEL, "COTUIT," PULLENS-LANE.

The City Council intends to build a THREE-STOREY ANNEXE to "Cotuit," to provide accommodation for thirty-six students, with a SINGLE-STOREY COMMUNAL WING.

Tendering will be on a FIRM PRICE BASIS; documents will be available by about 26th JULY, 1960.

Contractors wishing to be considered for inclusion in the list of tenderers should submit their names to the City Architect and Planning Officer, Town Hall, Oxford, by 7th JULY, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

OXFORD CITY

ROSE-HILL HOUSING ESTATE.

The City Council intends to provide TILED PITCHED ROOFS AND TO RENDER THE EXTERNAL WALLS OF 40 (20 PAIRS) SEMI-DETACHED, FLAT-ROOFED HOUSES at Rose-hill Housing Estate.

Contractors wishing to TENDER should submit their names, not later than 11th JULY, to the City Architect and Planning Officer, Town Hall, Oxford. Specifications and drawings will be available at that date.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.
EAW/SET.

WANSTEAD AND WOODFORD
BOROUGH.

CONCRETE PANEL FENCING.

TENDERS are invited for the SUPPLY AND ERECTION OF APPROXIMATELY 80 YARDS 6 FT. HIGH CONCRETE PANEL FENCING on Housing Site, Woodford Bridge. Tender documents may be obtained from the Borough Engineer, Municipal Offices, E.18, upon payment of £2 deposit, returnable on receipt of bona fide Tender, by NOON on 25th JULY, 1960.

STRETFORD
BOROUGH.

RESTORATION, CONVERSION AND IMPROVEMENT OF TERRACED HOUSES, HUMPHREY-ROAD AND SEYMOUR-GROVE, OLD TRAFFORD.

The Town Council invites TENDERS for the above-mentioned work, which consists of the RESTORATION, CONVERSION AND IMPROVEMENT OF ELEVEN THREE - STOREYED TERRACED HOUSES to provide TEN FOUR-BEDROOMED HOUSES, ONE ONE-BEDROOMED FLAT AND ONE TWO-BEDROOMED MAISONETTE.

The Specification, Form of Tender and other particulars may be obtained on application to Mr. A. H. Perry, Borough Surveyor, any day during office hours on payment of Two Guineas, which deposit will be repaid after receipt of a bona fide tender.

Tenders are due at the Town Hall by FIRST POST on MONDAY, 11th JULY, 1960, and must be forwarded in the special envelope provided, sealed and addressed to the undersigned, endorsed "TENDER FOR HOUSING, HUMPHREY-ROAD, etc.," and such envelope shall not bear any name or mark indicating the sender.

The lowest or any tender will not necessarily be accepted.

C. TREWAVAS,
Town Clerk.

Town Hall,
Stretford.
22nd June, 1960.

NORTHAMPTONSHIRE
STANDING JOINT COMMITTEE.

Contractors wishing to TENDER for the ERECTION OF THREE PAIRS OF STANDARD TYPE POLICE HOUSES at Wootton Hall Park, near Northampton, are asked to notify the County Architect, County Hall, Northampton, by TUESDAY, 12th JULY. From the names received the Committee will select firms to whom particulars will be sent.

J. ALAN TURNER,
Clerk of the Committee.

County Hall,
Northampton.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

NATIONAL COAL BOARD.
NORTH EASTERN DIVISION.

QUANTITY SURVEYING ASSISTANT Required. Practical experience of preparation of Bills of Quantities for varied industrial projects, re-measurement of work on site, and agreement of interim and final accounts with contractors desirable. Salary £715 x £25—£850 p.a.

Apply to Area Staff Manager, No. 1 (Worksop) Area, Todwick Grange, Nr. Sheffield, by 8th JULY.

Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

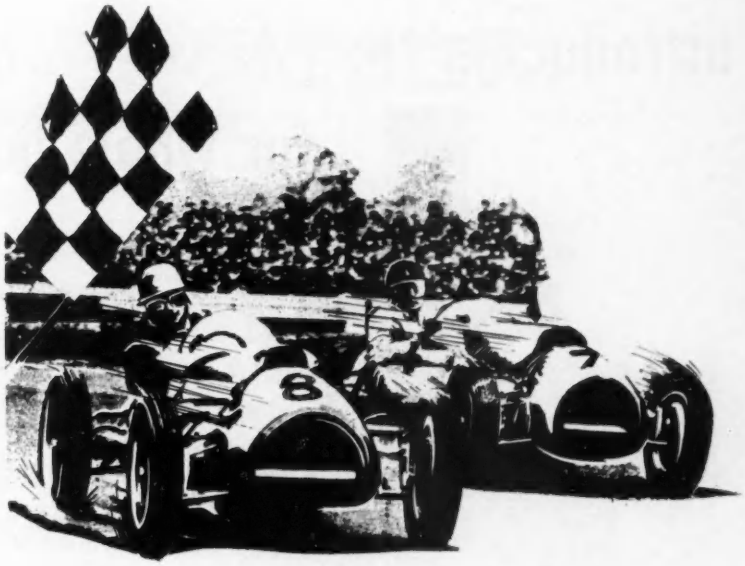
REX

A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models *Illustrated literature and prices on request*

BLAW KNOX LIMITED Box No 113

90/94 Brompton Road, London S.W.3. Telephone: KENsington 5151

BK 579



Finishing in style

As specialists in painting, plastering and cement glaze the HAT group of companies is earning an enviable reputation for style and speed. When you give the job to us it is done well—and within the specified time!

LET THE HAT GROUP LOOK AFTER YOUR

PAINTING, PLASTERING & CEMENT GLAZE WORK

THE HAT GROUP OF COMPANIES

The Hartel & Telling Group now comprises

LONDON

PLASTERING:
Hartel Plasterers Ltd.,
1 Montague St., London, W.C.1.

PAINTING:
P. J. Hartel (London) Ltd.,
1 Montague St., London, W.C.1.

CEMENT GLAZE
Robbs Cement Enamel Finishes Ltd.,
1 Montague St., London, W.C.1.

BATH AND SWINDON

PLASTERING:
A. C. V. Telling (Bath & Wilts) Ltd.,
13 New Bond Street, Bath, Som
also at 30 Marlborough Road, Swindon.

BRISTOL

PLASTERING:
A. C. V. Telling (Bristol) Ltd.,
3-5 St. Pauls Road, Bristol, 8.

CARDIFF & SWANSEA

PLASTERING:
A. C. V. Telling (Cardiff) Ltd.,
The Chambers,
St. Mary Street, Cardiff,
also at 26 Castle Street, Swansea.

EXETER AND PLYMOUTH

PLASTERING:
A. C. V. Telling (Devon) Ltd.,
8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

PAINTING:
P. J. Hartel (Devon) Ltd.,
8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

SOUTHAMPTON

PLASTERING:
A. C. V. Telling (Southern) Ltd.
10 Cumberland Place, S'hampton.

PAINTING:
P. J. Hartel (Southern) Ltd.,
10 Cumberland Place, S'hampton.

introducing the IDEAL-*Hotflow* accelerator for whole house heating . . .

- ★ constructed largely of non-ferrous metal
- ★ can be fitted at any angle
- ★ forms part of the pipeline
- ★ cannot be stalled by small particles of foreign matter
- ★ quiet running
- ★ special freeing clutch

The Ideal-Hotflow, suitable for 1" maximum pipe size, is a neatly designed disc type accelerator eminently suitable for small bore heating installations. It is mainly constructed of non-ferrous metal with the advantage of reducing corrosion problems. For extremely corrosive water the accelerator can be supplied in bronze at an extra cost. It has less than 3" maximum projection from the centre of the pipe and can be fitted at *any angle*. There is no seal or gland to leak or service, so no maintenance is required. It is quiet in operation and suitable for temperatures up to 275°F. The extra large axial gap reduces the risk of stalling with dirt. No overload protection is necessary and the Ideal-Hotflow has a very low power consumption. It does not interfere with television or radio.

IDEAL-*Hotflow* ACCELERATOR

for small bore heating

473 IDEAL BOILERS & RADIATORS LIMITED · IDEAL WORKS · HULL

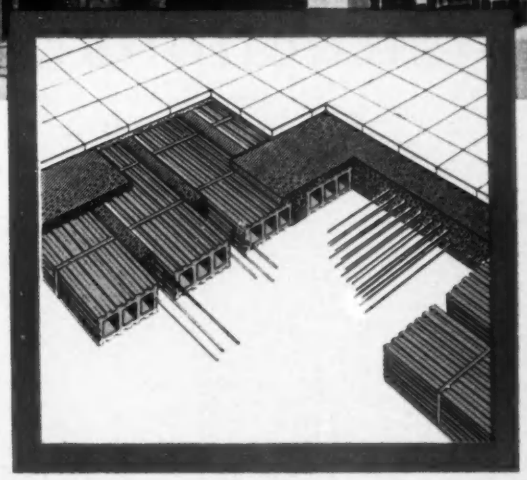
6,000 TONS
DEADWEIGHT SAVED

STATE HOUSE
HOLBORN, LONDON, W.C.2

ARCHITECTS: Trehearne and Norman, Preston & Partners, 83 Kingsway, London, W.C.2.

CONSULTING ENGINEERS: R. Travers Morgan & Partners, Hulton House, 161/6 Fleet Street, London, E.C.4.

CONTRACTORS: Tersons Limited, Dollis Park, London, N.3.



Extensive use of 'Phorpres' Hollow Clay Floor Blocks in the design of Floor Slabs at State House by the Consulting Engineers, resulted in a saving of 6,000 tons of deadweight. This achieved a considerable economy in the cost of construction which, together with a complete absence of internal beams, gave maximum flexibility of planning.

In all, some 140,000 'Phorpres' Hollow Clay Floor Blocks were used and 300,000 'Phorpres' Filler Tiles.

PHORPRES

LONDON BRICK COMPANY LIMITED in the service of the building industry

Head Office: Africa House, Kingsway, London, W.C.2. Tel: HOLborn 8282
Midland District Office: Prudential Buildings, St. Philip's Place, Birmingham 3. Tel: Central 4141
South-Western District Office: 11 Orchard Street, Bristol 1. Tel: Bristol 23004/5
Northern District Office: St. Paul's House, 20-22 St. Paul's Street, Leeds. Tel: Leeds 20771

BY APPOINTMENT TO HER MAJESTY QUEEN ELIZABETH II BRICK MAKERS

Medway Constructional Systems

Medway modular systems save both time and money. This is ensured by first class architectural detail and sound timber engineering, combined with really up-to-date production techniques. Very rapid site schedules can be offered with 'all-dry' methods. Design costs can also be cut at the 'working drawing' stage of a project.
Medway have systems suitable for almost any one or two-storey building—permanent or demountable. For rapid building, economic cost and, of course, a most attractive building use a *Medway System*.

MEDWAY BUILDINGS & SUPPLIES LTD.,
Phoenix Wharf, Rochester, Kent. Tel: Strood 7521

HUNTINGDON
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments :—

(a) ARCHITECTURAL ASSISTANT. Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT. Grade A.P.T. II (£765-£880).

The persons appointed will become members of small architectural teams engaged in projects of varying size. It is desired that the persons appointed shall be keenly interested in architecture with an up-to-date approach to both planning and design.

Application forms and further particulars may be obtained from S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, and completed forms should be returned to the undersigned by MONDAY, 11th JULY, 1960.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

RIPLEY
URBAN DISTRICT COUNCIL.

HOUSING REPAIRS' ASSISTANT/CLERK OF WORKS.

Applications are invited for this appointment at Grade VI of the Miscellaneous Salary Scales (£715-£775). Candidates must be qualified to deal with the administration and oversight of housing repair work, investigation of complaints, ordering of materials and jobbing work, supervision of labour, keeping of records, etc., and all duties of a Clerk of Works. Practical experience will be an advantage.

Consideration given to housing accommodation.

Applications in writing stating age, experience, etc., with names of two referees to be sent to the undersigned at Town Hall, Ripley, Derbyshire, by 12th JULY, 1960.

E. T. MELLOR,
Acting Clerk of the Council.
Town Hall,
Ripley.

BELFAST CITY.
CITY ARCHITECT'S DEPARTMENT

Applications are invited for the following posts :—

(a) ARCHITECTS, Class I.

Applicants must be registered and qualified by examination and should be capable of supervising architectural staff. Extensive experience in modern design and construction will be an advantage.

Salary : £1,010 x 6/£40 x £50—£1,300 per annum.

(b) ARCHITECTS, Class II.

Applicants must be registered Architects with experience in general design and construction of modern buildings.

Salary : £825 x 6/£35 x £40—£1,075 per annum.

(c) ARCHITECTURAL ASSISTANTS, Class I.

Applicants must have passed the Intermediate Examination of the R.I.B.A. and should have a sound practical experience in modern design and construction.

Salary : £610 x 6/£30 x 2/£40—£905 per annum.

(d) ARCHITECTURAL ASSISTANTS, Class II.

Applicants should be registered students of the R.I.B.A. or be prepared to register as students if appointed. Previous experience would be an advantage.

Wages at the rate of £285 x 2/£30 x £35 x 4/£30 x £40 x £35—£575 per annum.

(e) QUANTITY SURVEYOR, Class I.

Applicants should be Associates or Fellows of the R.I.C.S. and have a sound experience in the preparation of Bills of Quantities, valuations for certificates and preparation of final accounts and have a sound knowledge of preparing estimates.

Salary : £1,010 x 6/£40 x £50—£1,300 per annum.

(f) ENGINEER, Class II.

Applicants must have a University degree in Civil Engineering or be corporate members of the Institute of Civil Engineers.

Salary : £825 x 6/£35 x £40—£1,075 per annum.

(g) TECHNICAL ASSISTANTS, Class I.

Applicants should have a wide experience in land surveying, measuring existing buildings and assisting in civil engineering projects.

Salary : £620 x £30—£860 per annum.

This new Department under the City Architect offers considerable scope in all classes of municipal work including housing, schools, slum clearance, redevelopment, etc., with a number of interesting projects proceeding or envisaged, such as public baths, abattoir, crematorium, public libraries and welfare homes, and consideration will be given to applicants' stated preference for any particular type of development.

Commencing remuneration determined according to qualifications and experience. Superannuation contributions of approximately 6 per cent. of remuneration payable. Reciprocal pension arrangements exist between the Corporation and certain public authorities.

Canvassing will disqualify.

Application forms, etc., may be obtained from the City Architect's Office, Room 53, City Hall. Completed applications must reach the undersigned by 2nd AUGUST, 1960.

JOHN DUNLOP,
Town Clerk.

City Hall,
Belfast.
P.O. Box 234.

WOOD GREEN
BOROUGH.

APPOINTMENT OF MAINTENANCE OFFICER (HOUSING).

The Council invite applications for the above position on the permanent establishment of the Borough Engineer's Department, at a salary in accordance with A.P.T. Grade II (£765-£880) plus the appropriate London Weighting Allowance.

The person appointed will be responsible, under the control of the Works Superintendent, for the supervision of repairs to, and the periodical inspection of, all housing properties and preparation of reports as to their condition; preparation of schedules of condition; estimates and small plans for improvements and conversions, and the supervision of the carrying out of the works involved.

The appointment is subject to the Local Government Superannuation Acts and to medical examination.

Applications, stating age, qualifications and experience, and the names and addresses of two referees, must reach the undersigned by WEDNESDAY, 20th JULY, 1960.

G. W. PLATER,
Town Clerk.

Town Hall,
Wood Green, N.22.
1st July, 1960.

ROTHERHAM
RURAL DISTRICT COUNCIL.

APPOINTMENT OF DEPUTY MAINTENANCE WORKS MANAGER—ESTATES MAINTENANCE DEPARTMENT.

Applications are invited for the above appointment on the established staff.

Candidates for the appointment must have good administrative ability, be a Member or Associate of the Inst.Mun.B.M., or similar Association, and have had considerable practical experience with a Public Authority or Public Works Contractor in relevant branches of the building industry. The successful applicant will be expected to deputise whenever necessary in respect of the whole of the Works Manager's duties and responsibilities, and to prepare and submit reports to the appropriate Standing Committees.

Salary range Grade A.P.T. II/III (£765-£1,065); car allowance for car not exceeding 1,199 c.c. on "essential" user scale; provision of housing accommodation, if necessary.

The above appointment will be subject to the provisions of the Local Government Superannuation Acts, and to termination by either party on one calendar month's previous notice in writing.

Applications, stating age, qualifications, experience and present appointment, and the names and addresses of two referees should be submitted to the undersigned not later than SATURDAY, 30th JULY, 1960.

E. F. L. DANBURY,
Clerk to the Council.

Council Offices,
Grove-road,
Moorgate,
Rotherham,
Yorks.

OLDHAM
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF SURVEYING ASSISTANT.

Applications are invited for the appointment of SURVEYING ASSISTANT at a salary within Grade Miscellaneous V (£650-£715), commencing salary according to experience.

Applicants should be competent Surveyors and will be engaged in the field and in the Engineer's Drawing Office on both engineering and building works. National Conditions of Service and Local Government Superannuation Acts will apply.

Applications stating age, qualifications, experience and accompanied by copies of two recent testimonials, or the names of two persons to whom reference may be made, should reach me not later than WEDNESDAY, the 6th JULY, 1960, in envelopes endorsed "Surveying Assistant."

A. L. HOBSON,
Borough Engineer and Surveyor,
75 Union-street,
Oldham.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E. Borough Engineer and Surveyor, 7 Little Park-gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

QUANTITY SURVEYORS

CITY OF COVENTRY DEPARTMENT OF ARCHITECTURE AND PLANNING (Quantity Surveying Division) requires QUANTITY SURVEYORS APT. IV/V (£1,065 x £55 and £50 – £1,375) in connection with expanding programme which includes Central Swimming Baths (£850,000), College of Technology (£800,000), central redevelopment in high flats (11- and 17-storey) and many other projects.

Appointments may be made according to experience/qualification within Grade. Permanent and pensionable subject to satisfactory medical history.

HOUSING ACCOMMODATION in approved circumstances. Removal expenses loan.

Posts offer opportunity for interesting and varied experience, including both new and traditional techniques, in a progressive office with good conditions in a growing modern City having many amenities.

Full details and application forms from City Architect and Planning Officer, Council House, Coventry, returnable by 18th July, 1960.

ELSTREE
RURAL DISTRICT COUNCIL.

APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECT.

Applications are invited for the above temporary appointment in the Department of the Engineer and Surveyor, for a period of not less than two years, on work in connection with the design and erection of a proposed Public Hall, Covered Swimming Pool and other Civic Centre buildings.

Salary J.N.C. Scale "C," £1,385 to £1,620 per annum, commencing salary to be determined according to experience.

Candidates should have passed the Final Examination of the R.I.B.A. or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service; the provisions of the Local Government Superannuation Acts, 1937-1953, and will be determinable by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination.

Relationship to any Member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be sent in an envelope endorsed "Temporary Assistant Architect," so as to reach the Engineer and Surveyor at these Offices not later than FRIDAY, 22nd JULY, 1960.

A. LANCASHIRE,
Clerk of the Council.

Council Offices,
Shenley-road,
Boreham Wood,
Herts.
24th June, 1960.

SALFORD
ROYAL TECHNICAL COLLEGE.

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING.

Applications are invited for the following post :—

LECTURER IN QUANTITY SURVEYING.

Salary range: £1,370 p.a., rising to £1,550 p.a.

Corporate Membership of the Royal Institution of Chartered Surveyors, together with good professional experience, is essential.

The successful applicant will be required to lecture to students in R.I.C.S. (Quantity Surveying) courses.

Further particulars and forms of application may be obtained from the Registrar, Royal Technical College, Salford 5, Lancs, to whom completed forms should be returned by 6th JULY, 1960.

LONDON
COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Required ASSISTANT, Grade B, to teach mainly practical and theoretical subjects to Final City and Guilds of London Institute level in Carpentry and Joinery and Woodcutting Machinists' Work; the allocation of teaching periods will be approximately 50 per cent in each craft.

Applicants should hold Final City and Guilds qualifications in both subjects and preferably have good industrial experience.

Burnham F.E. salary, £700-£1,150 plus possible additions for approved training and qualifications, plus London allowance. Increments within scale for experience.

Application forms and further particulars from Secretary at College (FE3a/B/1702/7), Lime Grove, W.12, to be returned within 14 days.

WAR OFFICE,
WORKS DIRECTORATE.

SCOTTISH AND NORTHERN IRELAND QUANTITY SURVEYING ASSISTANTS.

If you have passed either the First or Intermediate Examination of the R.I.C.S. and are eligible to sit your next examination in the Quantity Surveying Section, you are invited to apply for QUANTITY SURVEYING ASSISTANT vacancies in the War Office, Chessington, Surrey.

The Quantity Surveying Division offers wide experience in all aspects of quantity surveying work on major building and civil engineering projects.

On appointment, applicants will be given a special training course in English Quantity Surveying Practice, coupled with a free evening course, for one term, at the College of Estate Management, London.

Salaries range from £402 at age 19 to £900 per annum, according to age, qualifications and experience. Five-day week, generous leave, sick pay and assistance for external training. There will be opportunities later for promotion to pensionable appointment.

Apply by 8th JULY, 1960, for interview, giving age, details of education, training and experience, to the Chief Quantity Surveyor, The War Office, Chessington, Surrey.

SALOP
COUNTY ARCHITECT'S DEPARTMENT.

CHIEF ENGINEER.

Applications are invited from suitably qualified men for the post of CHIEF ENGINEER in the County Architect's Department. Salary Grade JNC B/C (£1,275 rising by annual increments to £1,620 p.a.). Commencing salary according to qualifications and experience. The man appointed will be in charge of the Department's Engineering Group, responsible for the design, construction and maintenance of heating and electrical installations and other engineering services in schools and other public buildings. A knowledge of new methods is essential. A disturbance allowance or weekly separation allowance will be paid to a married man taking up the appointment. Conditions of service and application forms obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 14th JULY, 1960.

HARLOW
DEVELOPMENT CORPORATION.

ARCHITECT/PLANNER,
FREDERICK GIBBERD, C.B.E., F.R.I.B.A., M.T.P.I.
EXECUTIVE/ARCHITECT,
VICTOR HAMNETT, B.Sc., A.R.I.B.A., A.M.T.P.I.
STAFF VACANCIES

Vacancies occur within the following grades for staff to work on industrial buildings, housing, theatre, offices, shops, and similar programme of work in the town of Harlow :

ARCHITECT, A.P.T. VI, £1,163-£1,390.

ARCHITECT, A.P.T. V, £1,220-£1,375.

ASSISTANT ARCHITECT, A.P.T. IV, £1,065-£1,220.

ASSISTANT ARCHITECT, A.P.T. III, £880-£1,065.

ASSISTANT ARCHITECT, A.P.T. II, £765-£880.

A.R.I.B.A. required for Grade III upwards. Housing available.

Applications with full details to be sent, within ten days, to the General Manager, Terlings, Harlow, Essex.

Company Meeting

THE ASSOCIATED PORTLAND CEMENT MANUFACTURERS LIMITED

THE PARENT COMPANY OF THE BLUE CIRCLE GROUP

MOST SATISFACTORY RESULTS

POST-WAR CAPITAL EXPENDITURE EXCEEDS £54 MILLIONS

PLANS FOR EXPANSION OF MANUFACTURING CAPACITY AT HOME

MR. J. A. E. REISS ON COMPANY'S PARTICIPATION IN GROWING WORLD PRODUCTION OF CEMENT

The ANNUAL GENERAL MEETING of The Associated Portland Cement Manufacturers Limited was held on 28th June in London.

The following is an extract from the statement by Mr. J. A. E. Reiss, B.E.M. (Chairman and Managing Director), which accompanied the Report and Accounts sent to Stockholders:—

Accounts

The net Surplus, before providing for Taxation, is £891,974 more than a year ago. Provision for Taxation at £5,591,944 is £282,946 less than the similar provision made out of the profits of 1958, due mainly to the abnormally large credits amounting to £330,142 deducted in 1959 from the provisions for the year; this deduction includes credits of a non-recurring nature arising from the settlement of our liabilities to Excess Profits Levy and clearance of past years' claims for Double Taxation Relief.

Once again I should like to refer to the capital expenditure by our Group. Expenditure during 1959 amounted to £5,921,857 and during the fourteen years since the last war we have expended on capital account £54,270,075; during the same fourteen years we have provided out of profits £30,589,147 for depreciation and transferred £12,547,666 to Fixed Assets Replacement Reserve, a total of £43,136,813, which is equivalent to nearly 80 per cent. of the outlay. This expenditure has been financed without your Company having to issue fresh capital.

The Associated Portland Cement Manufacturers Limited now holds effectively 100 per cent. of the equity of The British Portland Cement Manufacturers Limited and 100 per cent. of the Alpha Cement Limited equity, so a clearer picture of our past year's working in the United Kingdom is produced by combining the results of these three Companies than is shown in the Consolidated Accounts, which include our overseas interests. The figures to the nearest thousand pounds are as follows:—

The trading surplus increased by £667,000 to £12,256,000. We set aside for depreciation £2,438,000 which was £212,000 less than a year ago, when special provisions amounting to £200,000 were made, and the allocation for replacement of fixed assets of £725,000 was the same; the total provision under these headings was £3,163,000. After providing for depreciation and replacement we were left with £9,093,000. Provision for Taxation decreased by £68,000 to £4,254,000. Directors' and Trustees' Emoluments, Debenture Service, Provision for amount payable to the Workmen's Pension Fund, Subvention payments to Subsidiary Companies, Share Issue Expenses and transfers to General Reserve together absorbed £2,514,000, an increase of £385,000, leaving for distribution £2,325,000, which is £562,000 more than last year.

In view of the continuing decline in our Export Trade these results can be considered most satisfactory and I am sure you will wish me to thank all those members of our Group whose keenness and loyalty has made them possible.

Revaluation of Fixed Assets

The Fixed Assets of the United Kingdom Companies within the Group were revalued at 1st January, 1955, and the Directors have decided that a further revaluation should be made in 1960. The figures at which these assets stand in the Companies' books are below their present-day value.

Past Year

With the easing of credit restrictions demand at home increased very much quicker than was foreseen and our deliveries were 6 per cent. higher. It became apparent by the early autumn that we should have to bring back into commission those sections of our plant which had been closed in 1957. This decision was implemented by the end of the year and we have, therefore, been producing at full capacity since January.

Whilst our Export Trade in ordinary cement showed a further small reduction in tonnage and profit margins continued to be slender, we shipped a larger tonnage of White Cement than ever before and our other special products also showed satisfactory increases.

This Year

This year we expect another record at home and deliveries may well be between 8 and 10 per cent. up on last year. So far, our export margins have shown a slight improvement but shipments continue to decline slowly. The production of cement is increasing all over the world in which process, as you will see later in this Statement your Company is playing its full share. Only thus shall we make good the disappearance of many of our old export markets.

In the last decade there has been a marked increase in the use of concrete and there is every reason to suppose that consumption of cement in this country will resume the normal increase that was interrupted in 1957.

The consumption of cement *per capita* at home is still very low as compared with abroad—we are, in fact, 12th out of the 16 main cement producing countries of the world.

With this in mind your Board have been laying plans for expansion of our manufacturing capacity at home and we expect that the second kiln at Cauldon will be in operation within the next few months. Work has started on the rebuilding of our Plymouth works which will result in the capacity being more than doubled. A suitable location for a works has been found in Scotland and we are negotiating for its acquisition with the object of building a 400,000 tons a year plant as soon as possible. A further decision taken recently is to develop the site that we bought shortly after the war at Westbury in Wiltshire by building a works that will produce 200,000 tons a year. It will take some three years to carry out these schemes which represent an addition to our capacity of nearly 1,000,000 tons per annum and as such, is the largest home building programme your Company has undertaken since its inception.

You will remember that we were one of the first Industries to adopt a policy of price stabilisation from year to year. We were particularly pleased to be able to announce a reduction in price of 2s. a ton which became operative on 1st February this year. This, in effect, meant that the Industry was prepared to pass on at once to consumers the economies that are to be expected from the increased production that will be required this year.

Overseas Works

Our overseas interests, which make an increasing contribution to our income, once again report a year of progress, achieving record sales of 2,262,000 tons. Our investments, with one exception, are within the Commonwealth and it is fair to assume that the demand for cement in these developing countries will continue to expand. The geographical spread provided affords a hedge against an undue preponderance of our overseas assets in one particular area.

In Australia The Commonwealth Portland Cement Company Limited surpassed its previous record results. During the year the Company made an offer for the share capital of Metropolitan Portland Cement Limited which owns a works with a rated capacity of 100,000 tons per annum at Maldon in New South Wales. This offer has since been accepted by over 90 per cent. of the shareholders and steps have been taken to acquire the remaining interests.

In Malaya both kilns have been converted from coal to oil firing. Demand continues to increase and, while competition from Far Eastern imports remains keen, Malayan Cement Limited continues to sell its full output.

In Mexico trading conditions generally reflected the effects of the recession in the United States of America but overall sales of cement showed little change from those of the previous year. There has recently been a marked upsurge in demand and prospects for 1960 are considered good. During periods of reduced demand the opportunity was taken to carry out considerable repairs to the plant of the Mixcoac works which in common with the other works at Tolteca, is now operating at full capacity. The new plant at Atotonilco which will produce 300,000 tons per annum, is expected to come into production at about the end of this year.

The new 200,000-ton kiln of The Golden Bay Cement Company Limited at Tarakohe, in New Zealand, came into production in October and is operating satisfactorily. Increases in capacity in New Zealand over recent years have resulted in keen competitive conditions but The Golden Bay Company continues to record very gratifying results.

In South Africa there was a reduction in building activity and consequent lower demand for cement. White's South African Portland Cement Company Limited, however, more than maintained its position relative to other cement makers and experienced a satisfactory year's trading. The works at Lichtenburg, in the Transvaal, operated at full production. The plant at the older works, in the Orange Free State, is being modernised. Since the end of the year the political outlook has become clouded. The problems with which the Union is faced admit of no simple solution but it is inconceivable that, in the long terms, the two races which populate this richly endowed land will be unable to work out a mutually acceptable *modus vivendi*.

Our principal interests in Canada centre upon British Columbia, which Province is still slow to recover from the setback of 1958. Demand for cement remains below productive capacity and there is little indication of any appreciable improvement in trading conditions in the near future. During this period the opportunity is being taken to increase the efficiency of the cement works at Bamberton, which is in the process of being converted from coal to oil firing. In 1956 we acquired certain limestone-bearing land in Ontario, with a view to entering the cement industry when conditions were considered propitious. Meantime we have taken other steps to secure an interest in Eastern Canada, particulars of which I hope to be in a position to announce shortly.

The East African Portland Cement Company Limited in Kenya, in which we have a substantial interest, had a successful year's trading.

In Southern Rhodesia there was a general reduction in building activity and, with the completion of the Kariba Dam, the demand for cement was appreciably lower. Under keen competitive conditions The Salisbury Portland Cement Company Limited, after providing for interest on loan capital and depreciation, made sufficient profit to allow preliminary and capital issue expenses to be written off and a small balance to be carried forward. Since the end of the year there has been some resurgence in activity and prospects appear brighter.

In Western Nigeria it is expected that the new 200,000-ton works which we are constructing will be in operation towards the end of the year. The demand for cement in Nigeria continues to grow and we look forward to playing a prominent part in assisting development in this important country.

Apart from the various interests mentioned above we are constantly investigating the possibility of expanding our activities elsewhere and during the past year have undertaken exploratory work in Pakistan, Ghana and Northern Nigeria and in the State of Victoria, Australia. We are hopeful that the outcome of our investigations will lead to the extension of our interests in these areas and thus further widen the field of our activities.

The report and accounts were adopted.

ST. HELENS
COUNTY BOROUGH.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Architectural Section of the Department :—

(a) CHIEF ASSISTANT ARCHITECT Scale " A " (£1,275-£1,420).

(b) PRINCIPAL ASSISTANT ARCHITECT, Grade A.P.T. V (£1,220-£1,375).

Applicants for appointment (a) should be Corporate Members of the R.I.B.A. with experience in design and construction of Public Buildings, Redevelopment Schemes and large scale Housing development and with experience also in the control and supervision of staff.

Applicants for appointment (b) should be qualified Architects with good experience in general municipal development.

The Council operates a five-day working week.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, Medical Examination and N.J.C. Conditions of Service.

Applications stating age, qualifications, present and past appointments, and details of experience, giving names of two referees and clearly indicating the appointment applied for must be forwarded to the undersigned not later than WEDNESDAY, 6th JULY, 1960.

Applicants must reveal relationship to any member or senior officer of the Council. Canvassing will disqualify.

M. WARD,
M.I.Mun.E., M.T.P.I., A.M.I.Struct.E.
Borough Engineer and Surveyor.
Town Hall,
St. Helens.

BARNET GROUP
HOSPITAL MANAGEMENT COMMITTEE.
BARNET, HERTS.

WORKS DEPARTMENT.

Applications are invited for the post of BUILDING SUPERVISOR. Salary scale (40½-50 points) £860 x £30 (5)—£1,010 per annum, plus London Weighting £40-£50 per annum.

Applicants must have served a full apprenticeship, followed by experience as a craftsman, and some years' experience as a general foreman in carrying out building contracts. Ordinary National Certificate (or comparable qualification) desirable. The officer appointed will be responsible to the Management Committee for the building maintenance work of the Group, and the duties will include the preparation of drawings, specifications and contracts for minor capital works and the supervising of such works entrusted to him (under the direction of the Regional Hospital Board, where appropriate).

Applications, with details of age, qualifications, experience, etc., and giving the names of three referees, should be sent to the Group Secretary, Barnet Group Hospital Management Committee, 1 Wellhouse-lane, Barnet, Herts, by 9th JULY.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF
CLERK OF WORKS.

Applications are invited for the above temporary appointment at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service, i.e. £610-£765 per annum, with the addition of " London Weighting " as follows :

Age 16-20 years, £15 ; 21-25 years, £25 ; 26 years and over, £40.

Commencing salary will be fixed at a point within the Scale commensurate with ability and experience.

Candidates must have a sound practical knowledge of all branches of the building trade and be experienced in the supervision and erection of buildings, capable of setting out, taking levels, measuring Contractors' works and keeping records and making reports.

The person appointed will be required to carry out his duties during those hours when building work is in progress on the various contracts with which he is concerned.

Application forms, obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, " Percy House," 7 Little Park-gardens, Enfield, Middlesex, must be returned to the undersigned not later than MONDAY, 11th JULY, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.
Public Offices,
Enfield,
Middlesex.

LONDON
COUNTY COUNCIL.

BUILDING SURVEYORS.

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under the London Building Acts and Byelaws. District Surveyors' offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,250, commencing according to qualifications and experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1637/7), County Hall, S.E.1.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

EXPANSION OF
ARCHITECTURAL DEPARTMENT.
P. H. KNIGHTON, M.B.E., A.R.I.B.A.,
REGIONAL ARCHITECT.

1. ARCHITECTURAL RESEARCH FELLOWSHIP.

In connection with the very considerable expansion of the hospital building programme now imminent, it has been decided to create a RESEARCH FELLOWSHIP to further investigation into the DESIGN and EQUIPPING OF HOSPITALS. The investigation is being promoted by the Regional Hospital Board in association with the Board of Governors of the United Newcastle upon Tyne Hospitals and the appointment will be for a period of three years.

The salary scale will be £1,300 x £60(2)-£1,420 and the post will be superannuable in accordance with the National Health Service regulations.

The architect appointed will be attached to the staff of the Regional Architect and be responsible through him to a Steering Committee representing the two Boards.

It is intended that initially the research will be directed towards means of achieving easily cleaned finishes in operating suites and to establishing a small permanent exhibition of models, samples, photographs and drawings to illustrate approved types. The investigation will subsequently deal with the design and equipping of a number of other hospital departments.

Applicants should preferably be within the age group 28 to 32, should be registered architects and Associate Members of the Royal Institute of British Architects, and should possess both enthusiasm and a marked ability for architectural research and the presentation of its results. The man appointed will be given opportunities for travel both in the British Isles and on the Continent to see modern hospital buildings.

To a keen and able architect the post offers an exceptional opportunity for becoming well versed in the techniques of designing and equipping modern hospitals and thus for fitting himself for future advancement.

2. ARCHITECTURAL STAFF.

As the Board is in the process of increasing considerably its Architectural Department in Newcastle to deal with a programme at present totalling about £12m., applications are also invited for the following (superannuable) posts :—

ASSISTANT ARCHITECTS (£905 x £35(1) x £45(6) x £50(2)-£1,310).

Applicants must be registered architects. Increments can be given above the bottom of the grade in accordance with relevant practical experience since qualifying.

ARCHITECTURAL ASSISTANTS (£625 x £30(8) x £35(1)-£900).

Inter R.I.B.A. and some practical experience.

ARCHITECTURAL DRAUGHTSMEN (£475 x £25(6) x £30(2)-£685).

Applicants should have had 3 years' previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications should give details of professional training, qualifications, experience and posts held ; present salary and any other relevant information, should be accompanied by the names of three architectural referees, and should reach the Secretary to the Board, Benfield-road, not later than 6th JULY, 1960.

HARROW
BOROUGH.

Vacancies exist for QUANTITY SURVEYING ASSISTANTS in the Department of the Borough Engineer and Surveyor.

Salary £765 per annum, plus London " Weighting " (maximum of A.P.T. Grade I) or £880 per annum plus London " Weighting " (maximum of A.P.T. Grade II) according to qualifications and experience.

The Council is unable to provide housing accommodation but contributions towards removal expenses will be considered.

The appointments will be subject to the Local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Application forms are obtainable from me, to whom they should be returned not later than SATURDAY, 9th JULY, 1960.

D. H. PRITCHARD,
Town Clerk.
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middlesex.

CRAWLEY

DEVELOPMENT CORPORATION have a vacancy for an ASSISTANT in the Maintenance Section of the Estates Department. Candidates should have had experience in supervision of large scale maintenance of houses and other properties, and have passed the intermediate examination of the R.I.C.S. (Building Sub-Division) or other approved Institution. Salary £610-£880 per annum (A.P.T. I and II), according to qualifications and experience. Contributory superannuation. Housing may be provided. Application forms and further particulars from Chief Estates Officer, Broadfield, Crawley Sussex, to be returned by FRIDAY, 15th JULY, 1960.

London County Council

HOUSING MANAGEMENT DEPARTMENT

WORKS DIVISION

ASSISTANT CONTRACTS MANAGER

Applications invited for position of assistant contracts manager in the department's direct labour organisation which is engaged in the erection of houses and multi-storey flats in and around London.

Applicants must have experience in all types of building work and ability to direct and control staff. Salary scale £1,250-£1,500.

Application should be made in writing by 12th July, to the Director of Housing, (G/B/1713/7), County Hall, S.E.1 giving age, full details of qualifications and past experience and, in confidence, when available.

ENFIELD
BOROUGH.
(Non-County Borough in the County of Middlesex :
Population 109,700 ; Area 12,401 acres.)

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment at a salary in accordance with the Grading of Special Classes of Officers of the National Scheme of Conditions of Service, i.e. £785-£1,070 per annum, with the addition of " London Weighting " as follows :

Age 16-20 years, £15 ; 21-25 years, £25 ; 26 years and over, £40.

Commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

Candidates must be Associates of the Royal Institute of British Architects and have had considerable architectural experience including the design and construction of public buildings and new housing estates.

There is a large varied programme of work including the redevelopment of Clearance Areas and other areas scheduled for comprehensive development.

Saturday mornings are normally free of duty.

Application forms, obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, " Percy House," 7 Little Park-gardens, Enfield, Middlesex, must be delivered to the undersigned not later than MONDAY, 11th JULY, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.
Public Offices,
Enfield,
Middlesex.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF CHIEF ASSISTANT ENGINEER.

Applications are invited for the appointment of CHIEF ASSISTANT ENGINEER at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220 per annum).

Applicants must have had considerable experience in municipal engineering and have passed the Final Testamur Examination of Municipal Engineers or hold equivalent qualification.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

The National Joint Council Conditions of Service will apply and the successful applicant must submit to a medical examination.

The district is developing rapidly and offers exceptional experience.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 4th JULY, 1960.

J. HENWOOD JONES,
Clerk of the Council.
Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

LONDON
COUNTY COUNCIL.

STRUCTURAL ENGINEERS.

Required in Architect's Department, L.C.C., salary up to £1,250, in:—

(a) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION. To deal with applications in respect of special structures under Part IV of the London Building Act (A) Act, 1939, and the constructional By-laws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYORS' SERVICE. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1638/7), County Hall, S.E.1.

HARROW
BOROUGH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor :

BUILDING INSPECTOR. Salary £880 per annum plus London " Weighting " (maximum of A.P.T. Grade II). This post carries an essential user car allowance.

Applicants should be in possession of the Building Inspector's Certificate of the Institution of Municipal Engineers.

TECHNICAL ASSISTANT (BUILDING BYELAWS). Salary £880 per annum plus London " Weighting " (maximum of A.P.T. Grade II).

Applicants should be qualified Building Inspectors.

The duties will be mainly in the office advising callers regarding the Council's Building Byelaws and other matters normally dealt with in a Building Inspector's Section.

The Council is unable to provide housing accommodation, but a contribution towards removal expenses will be considered.

The appointments will be subject to the local Government Superannuation Acts; and to the National Joint Council's Scheme of Conditions of Service.

Application forms are obtainable from me, to whom they should be returned by SATURDAY, the 9th JULY, 1960.

D. H. PRITCHARD,
Town Clerk.
Harrow Weald Lodge,
Harrow,
Middlesex.

SURREY
COUNTY COUNCIL.

Applications invited for the following appointments, with salary rising to a maximum of £1,220 per annum according to age, qualifications and experience, plus £40-£45 p.a. London allowance.

ARCHITECTS. Must be A.R.I.B.A. and have had experience in preparation of drawings and specifications, and be capable of assuming responsibility for medium to large scale contracts.

QUANTITY SURVEYORS. Must be A.R.I.C.S. and have had experience of estimating, taking-off, valuing works in progress and final accounts for large public buildings, including all specialist works.

HEATING AND VENTILATING ENGINEERS. Must be A.M.I.H.V.E. and have had experience in design of large heating, ventilating, hot water supply and gas service installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

ELECTRICAL ENGINEERS. Must be A.M.I.E.E. and have had experience in design of large electrical services installations. The successful applicant must be capable of taking charge of works from commencement to final completion.

STRUCTURAL ENGINEERS. Must be qualified Structural or Civil Engineer and have had experience in design and detailing of steelwork and/or reinforced concrete for medium to large scale contracts.

Applications stating fully age, qualifications, experience and present salary, accompanied by copies of three testimonials, to County Architect, County Hall, Kingston, as soon as possible.

CARDIFF CITY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments :—

SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade III/IV, £880-£1,220 per annum.

SENIOR ASSISTANT QUANTITY SURVEYORS, A.P.T. Grade IV, £1,065-£1,220 per annum.

Commencing salary in accordance with qualifications and experience.

Applicants should be fully qualified and experienced.

General Conditions of Appointment may be obtained from the undersigned.

Applications accompanied by the names and addresses of two referees, appropriately endorsed, should be delivered to me not later than the 11th JULY, 1960.

S. TAPPER-JONES,
Town Clerk.
City Hall,
Cardiff.

BUILDING CLERKS OF WORKS

are required by

MINISTRY OF WORKS in ENGLAND and WALES

London commencing salary normally £772 per annum, aged 28 or over, rising to £900 after four years. Outside London slightly less. Exceptionally well-qualified men may be paid a higher commencing salary. Prospects of promotion to posts with salaries of £1,065 and above.

Five-day week. 3½ weeks' annual leave. Opportunities for permanent posts with a non-contributory pension scheme and of service overseas.

Applicants must possess the O.N.C. Building, or a Final City and Guilds Certificate in a craft, or an equivalent qualification, and have had at least three years' supervisory experience on large-scale building sites.

APPLICATIONS :—send postcard for further details and application form to :—

Chief Works Engineer,
Ministry of Works,
Room 205, Cleland House,
Page Street,
London, S.W.1.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies have arisen in the Quantities Division which afford an opportunity for interesting and rewarding careers in a variety of branches of quantity surveying. Applications are accordingly invited, particularly from newly qualified surveyors, to fill these positions which include the following types of work :—

JUNIOR TAKING OFF/WORKING UP.

Approximate estimating and assisting in cost planning.

Pricing bills of quantities for estimate comparable with Tenders.

Preparation and settlement of final accounts for major building contracts including interim valuations.

Measurement of minor works, schedule accounts, etc.

Salaries up to £1,250 a year (N.B. Salaries quoted are subject to a salary settlement shortly to be confirmed).

Application form and particulars obtainable from Hubert Bennett, F.R.I.B.A., Architect to the Council (EK/B/1553/7), County Hall, S.E.1.

HERTFORDSHIRE.

ARCHITECTS Required for further NEW POSTS in expanding County Architect's Department.

ASSISTANT GROUP ARCHITECTS (team leaders). N.J.C. Scale "B." Up to £1,485 p.a.

SENIOR ASSISTANT ARCHITECTS. A.P.T. V. Up to £1,375 p.a.

A few vacancies also exist for ASSISTANT ARCHITECTS at salaries up to £1,070 (recently qualified) and £1,220 p.a. (fully qualified with minimum of three years' experience).

Car user allowances available for senior posts.

Apply by MONDAY, 11th JULY, 1960, to Geoffrey Fardell, M.B.E., A.R.I.B.A., County Architect, County Hall (Ref.: Ar.2), Hertford, Herts, stating experience, qualifications, training and naming two referees.

Previous Local Government experience not essential.

EAST BARNET
URBAN DISTRICT COUNCIL.

Applications are invited from suitably qualified persons for the following permanent appointments :—

(i) SENIOR ASSISTANT ARCHITECT —A.P.T. IV (£1,065-£1,220, plus London Weighting).

(ii) ARCHITECTURAL ASSISTANT —A.P.T. II (£765-£880, plus London Weighting).

(iii) ARCHITECTURAL DRAUGHTSMAN—A.P.T. I (£610-£765, plus London Weighting).

(iv) SENIOR ASSISTANT ENGINEER —A.P.T. IV (£1,065-£1,220, plus London Weighting).

(v) ASSISTANT ENGINEER—Special Grade (£785-£1,070, plus London Weighting).

Application Forms, obtainable from the Engineer and Surveyor, Town Hall, Station-road, New Barnet, Hertfordshire, must be returned by not later than MONDAY, 18th JULY, 1960.

HARLOW
DEVELOPMENT CORPORATION.

Applications are invited for the following post :—

JUNIOR SURVEYOR with experience in a Surveyor's Office or Estates Department on surveying and plotting of sites and preparation of registration plans and lease plans. Candidates should either have passed the Intermediate Examination of the Institute of Chartered Surveyors or equivalent or be studying for the Intermediate Examination.

Salary (dependent upon qualifications and experience) either £595 to £670 or £610 to £880.

Dwelling accommodation in suitable cases.

Applications WITHIN SEVEN DAYS to General Manager, Terlings, Harlow, Essex, together with names of two referees.

BEXLEY
BOROUGH.

Applications are invited for the following appointments :—

(a) SENIOR BUILDING AND PLANNING ASSISTANT—Grade A.P.T. IV (£1,065-£1,220 per annum) plus London weighting. Applicants must have passed the final examination of an appropriate professional body and have had considerable experience in dealing with all aspects of planning and building Bye Law matters.

(b) ASSISTANT ARCHITECT—Grade A.P.T. III (£880-£1,065 per annum) plus London weighting. Applicants should have suitable professional qualifications and experience in school and housing projects.

(c) ARCHITECTURAL DAUGHTSMAN—Grade A.P.T. I (£610-£765 per annum) plus London weighting. Applicants should be good draughtsmen and have a general knowledge of building construction and specification work.

Form of application and conditions of appointment are obtainable from Borough Engineer, West Lodge, Broadway, Bexleyheath, to whom completed applications must be returned by MONDAY, 25th JULY, 1960. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

AIR MINISTRY

require CLERKS OF WORKS (BUILDING) at R.A.F. and Ministry of Aviation stations for supervision of construction and maintenance work. Candidates must hold O.N.C. (Building), *or* Intermediate C. and G. Certificate in a craft, *or* Associate Membership of Institute of Clerks of Works *or* equivalent qualification. Must also have served apprenticeship as craftsmen with three years' experience as foreman of trade and have experience as general foreman or clerk of works on big contracts. Three years' full-time or five years' part-time training in a building school or three years' experience in a building office in estimating, costing and management accepted in lieu of apprenticeship. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £680 to £785 rising by annual increments to £850. Commencing salary dependent upon age, qualifications and experience. Applicants, who must be natural born British subjects and not over age 45 years, should write stating age, qualifications and experience to Manager (P.E.1048), Professional and Executive Register, Ministry of Labour, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be advised.

LONDON
COUNTY COUNCIL.

AN OPPORTUNITY TO TEACH TECHNICAL SUBJECTS IN SECONDARY SCHOOLS.

The London County Council will be pleased to consider applications for salaried appointments in its teaching service from men wishing to teach woodwork, metalwork, technical drawing or engineering subjects. To meet in particular the needs of men in industry with little or no teaching experience a full-time residential course (two weeks commencing on 29th AUGUST, 1960, and a further week in DECEMBER), has been arranged at Shoreditch Training College, Coopers-hill, Englefield Green, Egham, Surrey. Accepted candidates for appointment will be paid from the beginning of the course. Burnham Scale (£558-£1,051 including London allowance)—commencing salary will depend on qualifications and experience. Qualifications needed are Higher National Diploma with at least two years' industrial experience or Higher National Certificate or an appropriate Full Technological Certificate of City and Guilds of London Institute with at least five years' experience. The fee for the course is £22 16s., £10 of which will be refunded together with reasonable travelling expenses, on satisfactory completion of the course. For further particulars and application form send a stamped addressed foolscap envelope to Education Officer (TS1/B/1695/7), County Hall, Westminster Bridge, S.E.1, immediately.

WINSFORD
URBAN DISTRICT COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the above appointment in the Engineer and Surveyor's Department. Salary—Miscellaneous V, £650-£715, or Miscellaneous VI, £715-£775, according to qualifications and experience.

Applicants must have had sound experience in the supervision of Building and Civil Engineering Works and must be capable of setting out, measuring and keeping records.

The Council is embarking upon a large programme of new capital works consequent upon an agreement being entered into with Manchester Corporation under the Town Development Act, 1952, involving the development of new housing for up to 15,000 population, new Town Centre, Industrial Estates and works of Sewerage and Sewage Disposal, thus affording scope for gaining valuable experience by the successful applicant.

The Council are prepared to provide Housing Accommodation if necessary and to provide Travelling Allowance on a Casual User Basis. It is the Council's policy to assist with the payment of removal expenses.

Applications on forms to be obtained from the Engineer and Surveyor, Over Hall, Winsford, Cheshire, must reach me not later than the FIRST POST on 15th day of JULY, 1960.

N. BROWNING,
Clerk of the Council.

OLDHAM
COUNTY BOROUGH.

WORKS DEPARTMENT.
APPOINTMENT OF DEPUTY WORKS MANAGER.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. III (£880-£1,065 per annum).

Candidates must have good administrative ability and should either be members of the Institute of Municipal Building Management, the Institute of Builders, or similar Association, and have had considerable practical experience with a local authority or building contractor in a supervisory capacity covering the relevant branches of the building industry, including adaptations, repairs, and new building.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and the successful applicant will be required to pass a medical examination.

Applications, stating age, education, qualifications, and experience, including present post and salary, together with the names of two referees, should be submitted in an envelope endorsed "Deputy Works Manager" and addressed to the Works Manager, Oldham Corporation Works Department, Copsterhill-road Depot, Oldham, to be received not later than 18th JULY, 1960.

Canvassing will disqualify, and applicants should state whether to their knowledge they are related to any member or senior officer of the Council.

EDWARD HAINES,
Town Clerk.

Town Hall,
Oldham.

THURROCK

URBAN DISTRICT COUNCIL (Population 107,000), having claimed delegation of the Part 3 functions of the Town and Country Planning Act, 1947, invite applications for the following additional appointments in the Planning Section of the Engineer and Surveyor's Department :—

PLANNING ASSISTANT, Grade A.P.T. II (£765-£880) with experience in Development Control.

JUNIOR PLANNING ASSISTANT, Grade A.P.T. I (£610-£765) capable of surveying and levelling and a neat draughtsman.

Further information can be obtained from the Engineer and Surveyor at the address given below. Appointments pensionable. Applications, stating age, qualifications and experience, and quoting two referees, to Clerk of the Council, Council Offices, Grays, Essex, by 5th JULY, 1960. Canvassing disqualifies. Relationship with members or senior officers of the Council must be disclosed.

NORTHERN IRELAND
HOUSING TRUST.

SENIOR ASSISTANT ARCHITECT.

The Trust invites applications for the post of SENIOR ASSISTANT ARCHITECT, Grade II, on scale of £1,150-£1,300.

Candidates must be Associate Members of the Royal Institute of British Architects. Placing will be according to experience.

The person appointed will be required to contribute to a superannuation scheme which allows for the transfer of benefits in Local Government Schemes in suitable cases.

Housing accommodation may be arranged for married candidates.

Please apply not later than 5th AUGUST, 1960, giving full details of age, education, qualifications and experience, including present post and salary, to the Genueral Manager, Northern Ireland Housing Trust, 12 Hope-street, Belfast, 12.

Please mark envelope 33/83.

BRADFORD
CITY.

QUANTITY SURVEYORS.

Applications are invited for the following superannuable appointments in the City Engineer and Surveyor's Department :—

(a) QUANTITY SURVEYOR. Post 208, Special Grade (£785-£1,070) according to qualifications.

Candidates should have passed the Final examination of the appropriate professional body, and be capable of undertaking all stages of work in the preparation of Bills of Quantities and preparation and settlement of Final Accounts, Site Measurements, Interim Certificates and preliminary estimates in connection with multi-storey flats, houses, shops, etc., on large housing estates.

(b) ASSISTANT QUANTITY SURVEYORS, Posts 155 and 163, A.P.T. I (£610-£765).

Candidates should have passed the Intermediate examination of the appropriate professional body and should be capable of all stages of working up, checking of accounts and site measurement.

No housing accommodation can be provided.

Application forms obtainable from the City Engineer and Surveyor, Town Hall, Bradford, 1, with three testimonials, must be received by the undersigned by 15th JULY, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

WAR DEPARTMENT
WORKS ORGANISATION.

THREE QUANTITY SURVEYORS REQUIRED FOR GERMANY.

Applications are invited for the following posts :—

ONE SENIOR GRADE QUANTITY SURVEYOR.

Salary £1,840 to £2,120 per annum.

TWO MAIN GRADE QUANTITY SURVEYORS.

Salary £1,325 to £1,780 per annum.

Candidates must be F.R.I.C.S. or A.R.I.C.S. and have good organising ability. A reasonable working knowledge of German would be an advantage.

The SENIOR Quantity Surveyor will be responsible for :—

(a) organisation and supervision of all Quantity Surveying services;

(b) advice on all contract matters;

(c) liaison on contract matters with the German Construction Administration who arrange contracts on behalf of the Department.

The MAIN GRADE Quantity Surveyors will be responsible for control of small groups of German Architectural Engineers (Quantity Surveyors) and the duties will include :—

(a) Preparation of estimates;

(b) Examination of tenders and final accounts;

(c) Recording cost information and developing costing procedures;

(d) Maintaining the W.D. Schedule of Prices;

(e) Liaison with the German Construction Administration.

The posts are at Rheindahlen, near Munchen Gladbach and Bielefeld, and successful applicants will be required to take up their appointments early in November, 1960.

Substantial allowances for cost of living, disturbance, furniture storage and children's education are payable.

Applications must be submitted not later than 15th JULY, 1960, to The Chief Quantity Surveyor, Works Directorate, The War Office, Chessington, Surrey.

NORTHFLEET
URBAN DISTRICT COUNCIL.

(a) ENGINEERING ASSISTANT.
(b) ARCHITECTURAL ASSISTANT.

Applications are invited for (a) ENGINEERING ASSISTANT, (b) ARCHITECTURAL ASSISTANT in the Engineer and Surveyor's Department at a salary within Grades A.P.T. II or III (£765-£880; £880-£1,065) according to age and experience.

Candidates must hold an appropriate qualification and have had municipal experience. Applications, stating age, qualifications, experience and the names of two referees, to be returned to the Engineer and Surveyor not later than MONDAY, the 18th JULY, 1960.

DREWERY F. BUNKALL,
Clerk of the Council.

Town Hall,
Northfleet,
Kent.
22nd June, 1960.

BIRMINGHAM CITY.

CITY ARCHITECT'S DEPARTMENT.

DRAUGHTSMEN OR DRAUGHTSWOMEN Required, with experience in Architecture or Constructional Engineering. Commencing salary, according to capabilities and experience, will be within Grade A.P.T. I (£630-£785) for applicants possessing the Ordinary National Certificate, or Miscellaneous Grades IV, V or VI (£610-£795) for unqualified applicants with suitable practical experience.

Pension scheme. Five-day week. Medical examination.

Applications, stating age, present post and salary, qualifications, experience and two referees, to the undersigned by 8th JULY, 1960.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1.

STEVENAGE
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ENGINEERING ASSISTANT—Grade A.P.T. II (£765-£880 p.a.), to assist initially on the design and construction of improvements to Council Houses. Preference will be given to candidates who have passed the intermediate examination of the Royal Institution of Chartered Surveyors.

(b) BUILDING INSPECTOR—Grade A.P.T. II (£765-£880 p.a.). Candidates must be experienced in building construction and the administration of the Building Byelaws.

In the case of both appointments housing accommodation will be provided if required and a casual user car allowance will be paid.

The appointments will be the subject of the Local Government Superannuation Acts and to the passing of a medical examination. The appointments are terminable by one month's notice on either side.

Applications, stating age, past and present appointments, and experience, together with the names of two referees, must be delivered to the undersigned by not later than 8th JULY, 1960.

E. J. BOWERS,
Clerk of the Council.

Council Offices,
Orchard-road,
Stevenage,
Herts.

AIR MINISTRY

Works Designs Branch requires in London CIVIL ENGINEERING DESIGNER DRAUGHTSMEN with adequate training and drawing office experience in one or more of the following:—

(a) Roads, pavements, earthworks and stormwater drainage.
(b) Foul drainage and sewage disposal.
(c) Water supply and distribution.

Some site experience and possession of recognised technical qualification an advantage. Financial assistance and time off may be allowed for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave per year initially. Salary ranges from £680 (at age 25) to £900 p.a Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.d. Lacon House, Theobalds-road, London, W.C.1, or apply to any Employment Exchange quoting Kings Cross 3746 giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

PETERLEE
DEVELOPMENT CORPORATION.

CHIEF QUANTITY SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR on the Corporation's Salary Grade A.P.T. III (£880-£1,065).

Applicants should have passed the intermediate examination of the Royal Institution of Chartered Surveyors.

The appointment, which is superannuable, is subject to the Corporation's Conditions of Service and will be terminable by one month's notice on either side. The successful applicant will be required to pass a medical examination.

Housing accommodation available if necessary.

Applications, stating age, experience, qualifications and liability to National Service, and giving the names of two persons to whom reference can be made, should reach the undersigned not later than FRIDAY, 15th JULY, 1960.

A. V. WILLIAMS,
General Manager.

Shotton Hall,
Peterlee,
Co. Durham.

LONDON
CORPORATION.

Invites applications for TEMPORARY APPOINTMENTS in the City Engineer's Department in connection with the construction under contract of a large municipal building, for the duration of the works estimated at 2½ years:—

Salary:—

SITE ARCHITECT IN CHARGE, £1,375 by £50 to £1,475.
ASSISTANT SITE ARCHITECT, £1,325.
ASSISTANT ARCHITECT, £1,120.
CLERK OF WORKS, £1,025.

Candidates for architectural posts should be Corporate Members of R.I.B.A., have had good general experience, particularly of site management; the Site Architect in Charge must be capable of controlling a large contract and supervision of staff.

The appointments are subject to the Standing Orders of the Corporation and medical examination.

Applications, stating age, appointments held and experience, with names of two referees, to:—

The City Engineer, Guildhall, London, E.C.2, by 18th JULY, 1960.

BEBINGTON
BOROUGH.

(AMENDED ADVERTISEMENT.)
SENIOR ARCHITECTURAL ASSISTANT—
GRADE IV A.P.T.

Applications are invited for the above post, commencing salary of which will be fixed according to qualifications and experience. A car allowance on the casual user scale will be payable.

A five-day week is in operation.

Applicants must hold appropriate architectural qualification and should also be capable of undertaking development schemes of housing and public buildings.

Application forms are available from the Borough Engineer and Surveyor, Town Hall, Bebington, Cheshire, and when completed should be returned to the Town Clerk so as to be received by him, at the same address, not later than FIRST POST on FRIDAY, 15th JULY, 1960.

The candidate appointed, if married and considered by the Council to be in need of housing at the time of appointment, will be found accommodation within a reasonable period of time.

Canvassing will be a disqualification.

WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of a CLERK OF WORKS to supervise the erection of new school and other County Buildings. Salary £16 per week.

Applications are to be on forms which can be obtained from Eric Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
24th June, 1960.

GREENWICH
METROPOLITAN BOROUGH.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the position of JUNIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary A.P.T. I (£610 to £765 per annum, plus London Weighting). Commencing salary in accordance with experience.

Preference will be given to applicants with experience of architectural drawing who have made suitable progress towards completion of the examination of the R.I.B.A. or R.I.C.S. Facilities available for study on one day per week.

Form of application obtainable from the undersigned and returnable by NOON on MONDAY, 11th JULY, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
16th May, 1960.

KENT
COUNTY COUNCIL

requires a CLERK/DRAUGHTSMAN in the Planning Department at County Hall, Maidstone. Salary within Miscellaneous Grades I-IV (£425-£650 per annum), commencing point according to qualifications and experience. Post is superannuable. Five-day week in operation. Applications with names of two referees to County Planning Officer, County Hall, Maidstone, by 5th JULY, 1960.

STOCKPORT
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Vacancies for:—

(1) ARCHITECTS. A.P.T. IV (£1,065-£1,220). Candidates must be members of the R.I.B.A. Local Government experience not essential.

(2) ASSISTANT QUANTITY SURVEYOR. A.P.T. III (£880-£1,065). Must have suitable experience.

(3) JUNIOR QUANTITY SURVEYOR. Clerical Division II (£670-£765). Experience in Quantity Surveyor's or Contractor's office an advantage.

Commencing salary in each case will be subject to qualifications and experience. Varied and large scale building programme. The Corporation have a scheme for advancing, in approved cases, loans for house purchase up to 100 per cent. Applications stating age, qualifications, experience, two referees, and if related to any member/senior officer of Council, to Borough Architect, Town Hall, Stockport, by 19th JULY, 1960. Canvassing disqualifies. Posts pensionable, subject to medical examination.

LEICESTER
ADMINISTRATIVE COUNTY.

ASSISTANT QUANTITY SURVEYOR, £765 to £880 or £785 to £1,070, according to qualifications.

Candidates should have had experience in the preparation of Specifications, Bills of Quantities and the settlement of Final Accounts. Intermediate or Final R.I.C.S. preferred.

Lodging allowance and removal expenses may be paid to a married man.

Apply by 15th JULY, 1960, on form obtainable from County Architect, 123 London-road, Leicester.

WATFORD
BOROUGH.

Watford is a pleasant, thriving town in south-west Hertfordshire, in the Green Belt and with easy access to the open country. Although within easy reach of London it has a distinct civic consciousness and cultural, educational, shopping and transport facilities are excellent.

The Corporation has a large number of projects in hand and envisaged, including Swimming Bath, Library extensions, multi-storey buildings, flatted factories and housing, and expansion of the Borough Engineer, Surveyor and Architect's Department is contemplated to handle these schemes.

Applications are invited from suitably qualified candidates for:—

(a) ASSISTANT ARCHITECT. Salary within Grade A.P.T. IV (£1,065-£1,220 per annum).

(b) ARCHITECTURAL ASSISTANTS. Salary within Grades A.P.T. II-III (£765-£1,065 per annum).

(c) ARCHITECTURAL ASSISTANT. Salary within Grade A.P.T. I-II (£610-£880 per annum).

The Assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility. Commencing salaries will be commensurate with experience and ability and Housing accommodation will be provided for those requiring it.

Applications to be sent to the undersigned not later than 11th JULY, 1960.

F. C. SAGE, A.M.I.C.E., M.I.Mun.E.,
Registered Architect, Borough Engineer, Surveyor and Architect.

Town Hall,
Watford,
Herts.

THE SUTTON
DWELLINGS TRUST.

Applications are invited for the appointment of a TECHNICAL ASSISTANT at a salary of £750 to £900 per annum according to qualifications and experience. There is a pensions scheme. Candidates should be accustomed to preparing drawings, specifications, etc., for all types of maintenance repairs, improvements and minor building work on housing estates.

Full particulars and forms of application may be obtained from the General Manager and Secretary of The Sutton Dwellings Trust, Victoria House, Southampton Row, London, W.C.1, by whom applications must be received not later than 25th JULY, 1960.

GRIMSBY
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited for the appointment of a BUILDING INSPECTOR in the Department of the Borough Engineer and Surveyor, at a salary of £650 rising to £715 per annum in accordance with Grade Misc. V of the National Scheme of Conditions of Service.

Applicants should be not more than 45 years of age, and have a sound knowledge of Building Construction. Experience in the administration of Building Bye-laws and relevant statutory legislation will be an advantage.

The appointment is subject to the Local Government Superannuation Acts and will be terminable by one month's notice in writing on either side. The successful applicant will be required to pass a medical examination.

Applications, giving name, address, age, qualifications, experience, past and present employment, together with names of two referees, should be forwarded to the undersigned not later than MONDAY, 11th JULY, 1960.

J. V. OLDFIELD,
M.Inst.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
Town Hall Square,
Grimsby.

BLACKBURN
COUNTY BOROUGH.

ASSISTANT QUANTITY SURVEYOR.

Applications are invited for this appointment. Candidates should have passed the Final Examination of the R.I.C.S. (Q.S. section) or equivalent.

Housing accommodation will be available if required.

Applications, stating age, qualifications and experience, with names of two referees, to be sent to Borough Engineer, Town Hall, Blackburn, by 18th JULY.

FRANK SQUIRES,
Town Clerk.

BRITISH EUROPEAN AIRWAYS.

Two ASSISTANT ARCHITECTS Required to work under the Chief Staff Architect on an increasing programme of interesting and varied projects involving some travel in the U.K. and overseas. Working conditions are good and a vigorous and practical approach to first-class contemporary design is encouraged.

These permanent pensionable posts would suit qualified young men, trained full time at a recognised school of architecture with not less than two years' office experience. Men with experience who are about to qualify will be considered. Sensitive design ability and sound technical competence are essential.

Salary range £940-£1,290, depending on qualifications and experience.

Write for full details and Application Form (to be returned by 22nd JULY, 1960) to Personnel Officer, Head Office BEA, Bealine House, Ruislip, Middlesex.

MAIDSTONE
BOROUGH.

SENIOR ASSISTANT ARCHITECT.

Applications are invited from appropriately qualified ARCHITECTS for the above appointment, within the salary scale £1,030-£1,150.

Consideration will be given to the provision of Housing Accommodation if required.

The appointment will be subject to the Local Government Superannuation Acts, and to the National Joint Council's Scheme of Conditions of Service.

Application forms, obtainable from the Borough Engineer, Palace-avenue, Maidstone, are to be returned to him by 12th JULY, 1960.

T. SCHOLES,
Town Clerk.

HOVE
BOROUGH.

SENIOR ASSISTANT ARCHITECT. (Grade A.P.T. IV. £1,065-£1,220.)

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV.

Candidates should have a general experience including the preparation of drawings and specifications and should have passed the Final examination of the Royal Institute of British Architects or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service, Local Government Superannuation Acts, medical examination and one month's notice on either side.

Applications stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees must be received by the undersigned not later than WEDNESDAY, 20th JULY, 1960.

Relationship to any member or officer of the Council must be disclosed and canvassing, either directly or indirectly, will be a disqualification.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.
20th June, 1960.

Alborough SLIDE-OVER DOORS
HAVE ALL THE ADVANTAGES . . .

One-hand opening and closing in all weathers . . . finger-light operation . . . pleasing appearance . . . maximum strength and durability. These are features of the new Alborough Garage Doors.

THE DOOR FOR S-M-O-O-T-H ACTION

Unique all-steel lath construction, plus ball-bearing slide-over action with counter-balancing weights, gives the Alborough 'Slide-Over' Door its amazing ease of operation at a hand's touch. There's a standard size to fit most garage door frames, so be sure you ask for ALBOROUGH 'Slide-Over' Garage Doors.

Send NOW for full information with list of prices ranging from £19. 10s. 0d.

Alborough

A.B.C.D. (Raynes Park) LTD.,
34/35 Alpha Road, Surbiton, Surrey.
Tel.: ELMbridge 6591/3

WOKINGHAM
RURAL DISTRICT COUNCIL.

APPOINTMENT OF TECHNICAL ASSISTANT.

Applications are invited for the above TEMPORARY APPOINTMENT in the Surveyor's Department for work in connection with schemes for the modernisation and improvement of Council Houses.

Applicants must have experience in the preparation of detailed plans of alterations; drafting specifications and in supervising contract work.

The salary will be is accordance with Grade A.P.T. I (£610-£765 p.a.).

Transport facilities will be provided by the Council.

Applications in writing are to be sent to the undermentioned in sealed envelopes endorsed "Technical Assistant" by not later than 15th JULY, 1960.

Canvassing will disqualify.

GEOFFREY HEATH,
Clerk to the Council.

Council Offices,
Shute End,
Wokingham,
Berks.

STOCKTON-ON-TEES
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

SENIOR ASSISTANT ARCHITECT—Salary A.P.T. IV (£1,065-£1,220).

TWO ASSISTANT ARCHITECTS—Salary Special Grade (£785-£1,070).

ASSISTANT QUANTITY SURVEYOR—Salary A.P.T. I (£610-£765).

Forms of application from the Borough Architect, 28 The Square, Stockton-on-Tees, to be returned not later than the 12th JULY, 1960.

Any person applying at present employed in Local Government Service with less than two years' service with his existing employer will not be considered.

Housing accommodation will be available for married applicants for the architectural posts.

JOHN B. HAWORTH,
Town Clerk.

OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

CLERKS OF WORKS Required to supervise erection of new building works, including houses and schools. Salary £845 per annum. National Conditions of Service.

Practical knowledge of all branches of building trade essential, with experience of setting out, taking levels, measuring up, keeping records and making reports.

Housing accommodation provided.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 16th JULY, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

SOUTHAMPTON
COUNTY BOROUGH.

Applications are invited for the following appointment:—

ASSISTANT ARCHITECT within the grading for Special Classes of Officers (£785-£1,070) according to experience and qualifications (a commencing salary of £950 is envisaged). Applicants must have passed Parts I and II of the R.I.B.A. final examination and have had experience in housing design and construction and estate layout.

The appointment is subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by MONDAY, 11th JULY, 1960.

BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department:—

ASSISTANT ARCHITECTS, A.P.T. Grade V, £1,220-£1,375 p.a.

The appointments are superannuable and subject to medical examination, and applicants should be suitably qualified for architectural appointment.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 11th JULY, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

SURREY
COUNTY COUNCIL.

Applications invited for CLERK OF WORKS on major building projects and maintenance. Salary range £16-£20 p.w. according to ability and experience. Must have been properly trained as craftsmen. Application Forms from County Architect, County Hall, Kingston, to be returned to him by 8th JULY, 1960.

SWINDON
BOROUGH.

APPOINTMENT OF QUANTITY SURVEYOR'S ASSISTANT.

Applications are invited for an appointment of QUANTITY SURVEYOR'S ASSISTANT, Clerical Division, Grade I (£595 to £670 per annum) in the Borough Architect's Department.

Applicants must have minimum qualifications of G.C.E. in three appropriate subjects, or the Local Government Examinations Board's Entrance or Clerical Examinations, and should have had some experience in quantities and estimates.

Applications, on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 13th JULY, 1960.

TAUNTON
BOROUGH.

APPOINTMENT OF BUILDING INSPECTOR.

Applications are invited by 12th JULY in accordance with details to be obtained from the undersigned for the permanent appointment of BUILDING INSPECTOR (A.P.T. II, £765 to £880). Candidates must have had considerable experience as building inspector or assistant, including by-laws and planning. The opportunity is given of obtaining valuable experience of extensive development in a flourishing County town. Consideration will be given to housing, if required.

E. R. TYZACK,
Borough Engineer and Surveyor.

St. Paul's House,
Taunton,
Somerset.

NUNEATON
BOROUGH.

ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified persons for this position. Salary, Special Grade, £785-£1,070.

The post is suitable for a recently qualified person and will provide scope and opportunity for a varied experience as the Borough Council have much architectural work in hand.

Further details and forms of application, which must be returned not later than the 15th JULY, 1960, may be obtained from me.

A. A. CRABTREE,
Town Clerk.

Council House,
Nuneaton.
June, 1960.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

TEMPORARY CLERK OF WORKS.

CLERK OF WORKS (temporary) Required for Lea Castle Hospital, Kidderminster. Salary within the range £1,000-£1,200 per annum according to qualifications and experience. The scheme will be the extension of a 160-bed mental defective hospital to 650-beds and will comprise of double and single-storey wards, boiler house, kitchens and all ancillary buildings together with staff houses and nurses' home, roads and landscape contracts. The work is to be carried out in two phases.

Written applications with full details to Secretary, Birmingham Regional Hospital Board, 10 Augustus-road, Birmingham, 15, by 18th JULY, 1960, quoting ARCH 8.

CARDIFF CITY.

CITY SURVEYOR'S DEPARTMENT.

Required in the Building Maintenance Section:—

TWO DISTRICT BUILDING SUPERVISORS, A.P.T. Grade II (£765-£880).

The persons appointed will be responsible (under the Building Maintenance Manager) for the maintenance of houses and a variety of other Corporation properties and the control of a District comprising a labour force of approximately 100 men. Experience in building works management is desirable.

Apply to the undersigned by the 16th JULY, stating age, experience, qualifications and names and addresses of three referees. Envelopes should be appropriately endorsed.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

BOURNEMOUTH
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of:—

(A) ASSISTANT ARCHITECT, Salary Grade, Special Scale, £785-£1,070 p.a.

(B) ARCHITECTURAL ASSISTANTS, Salary Grade, A.P.T. I, £610-£765 p.a.

Successful candidates will be appointed at present salary if within the incremental scale.

Candidates for Post (A) must be fully qualified (by examination) members of the R.I.B.A. and for Posts (B) to have passed the Intermediate Examination of the R.I.B.A.

Application forms and further particulars from Borough Architect, Town Hall, Bournemouth. Completed applications to reach the undersigned by 10 a.m., 16th JULY, 1960.

A. LINDSAY CLEGG,
Town Clerk.

LONDON
COUNTY COUNCIL.

BRIXTON SCHOOL OF BUILDING. Required from September, 1960:—

(1) TWO LECTURERS to teach:—

(i) *Building subjects* in National Certificate and Diploma courses. Should be corporate member of R.I.B.A. or other appropriate professional institution with good experience in professional practice and special interest in constructional technique and technological development.

(ii) *Surveying subjects*. Should be corporate member of R.I.C.S. in Quantity or Building Surveying with good professional experience. Teaching experience an advantage.

(2) TWO ASSISTANTS, GRADE B, to teach Architecture and Surveying. Should be corporate members of R.I.B.A. or R.I.C.S. Candidates with one of following special interests preferred: (i) Construction; (ii) Services; (iii) Law and Economics.

Burnham (F.E.) salary scales:—

Lecturer: £1,370-£1,550, plus London allowance.

Grade B: £700-£1,150, plus London allowance and additions for qualifications and training. Increments within scale for experience.

Application forms (foolscap s.a.e.) from Secretary at School, Ferndale-road, S.W.4, returnable within TWO WEEKS.

OLDBURY
BOROUGH.

Applications are invited for the following appointments on the staff of the Borough Surveyor:

(a) SENIOR ARCHITECTURAL ASSISTANT, Salary A.P.T. Grade IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, Salary A.P.T. III (£880-£1,065).

Candidates should be well trained and experienced in the design and preparation of schemes and supervising contracts in connection with General Housing including Multi-storey Flats, Public Buildings, School Buildings and Minor Improvements and Maintenance Works.

The appointments will be superannuable subject to the National Conditions of Service and to the selected candidates passing a medical examination.

Applications giving particulars of age, qualifications and experience to be sent to the undersigned not later than the 4th of JULY, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.
June, 1960.

SOUTH-WESTERN REGIONAL
HOSPITAL BOARD.

Applications are invited for the following posts in the Architect's Department in connection with an expansion of the Board's hospital building programme:—

(a) TWO PRINCIPAL ASSISTANT ARCHITECTS (Scale II), £1,665 x £50 (1) x £75 (2) x £85 (2)—£2,035.

(b) TWO SENIOR ASSISTANT ARCHITECTS, £1,300 x £60 (5)—£1,600.

(c) ONE ASSISTANT ARCHITECT, £905 x £35 (1) x £45 (6) x £50 (2)—£1,310, who would be required to work either in the Bristol or Plymouth Office.

Applicants must be Registered Architects. Previous hospital experience desirable but not essential. The work offers an opportunity of gaining experience in the field of hospital planning and covers all stages from sketch plans to the supervision of construction.

Applications stating age, qualifications and experience with the names of three referees to reach the Secretary of the Board, 27 Tyndalls Park-road, Bristol, 8, by 16th JULY.

BERMONDSEY
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
ASSISTANT ARCHITECT.

Applications are invited for the permanent appointment of ASSISTANT ARCHITECT, Grade A.P.T. III-IV (Salary range from £880-£1,220 p.a., plus London Weighting). Commencing salary according to experience and qualifications. Applicants must have passed final R.I.B.A. Examination. Applications on forms from the undersigned to be returned by not later than 16th JULY, 1960.

J. S. LAMBERT,
Town Clerk.

Municipal Offices,
Spa-road,
London, S.E.16.

SPALDING
RURAL DISTRICT COUNCIL.

Applications are invited for the post of JUNIOR ASSISTANT in the Architect's Department. Salary within Grades Miscellaneous I-II (£425-£252) according to age and experience. Applicant must have some experience as a draughtsman. The appointment will be subject to a medical examination and the Local Government Superannuation Acts.

Applications, stating age, qualifications and experience, together with names of two persons to whom reference can be made, to reach the Clerk of the Council, Rural Council Offices, Priory-road, Spaldings, Lincs., not later than 15th JULY, 1960.

G. S. ASHWORTH,
Clerk of the Council.

BRADFORD
CITY.

FACTORIES ACT, 1937—SECTION 34 INSPECTOR, POST 60.
GRADE A.P.T. I (£610-£765).

Applications are invited from suitably qualified persons for the above superannuable post.

Duties involve inspections for means of escape in case of fire, and the preparation of reports and plans. Candidates should have a knowledge of building construction and be accustomed to dealing with building plans.

Housing accommodation cannot be provided.

Application forms obtainable from the City Engineer and Surveyor, Town Hall, Bradford, 1, with three testimonials, must be received by the undersigned by 15th JULY, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

CWMBRAN
URBAN DISTRICT COUNCIL.

APPOINTMENT OF FOREMAN MANAGER, DIRECT LABOUR BUILDING SCHEME.

Applications are invited for the above position in A.P.T. Grade II (£765-£880 per annum inclusive of all overtime worked on the site). The successful candidate will be responsible to the Council's Architect for the day-to-day operation of the Council's Direct Labour Scheme. He must have had recent practical supervisory experience in the building industry and should preferably be an experienced tradesman who has succeeded to a responsible position with a building contractor.

The appointment is permanent and superannuable and is subject to the successful candidate passing a medical examination and to termination by one month's notice on either side.

Housing accommodation will be provided if required.

Applications stating age, training, experience and the names and addresses of two referees and the name and address of the last employer should reach the undersigned by not later than WEDNESDAY, 13th JULY, 1960.

KENNETH G. S. GUNN,
Clerk of the Council.

Council Offices,
Cwmbran,
Mon.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

RESIDENT ENGINEER Required immediately for five- and 25-storey blocks at Draper-street Development Scheme, Elephant & Castle, London. Experience in supervision of reinforced concrete and pre-stressed concrete structures on the site desirable, but those with adequate knowledge and experience of design alone considered. B.Sc.(Eng.), A.M.I.C.E or A.M.I.Struct.E. desirable. Up to £1,250 according to qualifications and experience.

Forms, returnable by 12th JULY, from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1636/7), County Hall, S.E.1.

BRADFORD
CITY.

SENIOR QUANTITY SURVEYOR.

Applications are invited for the superannuable appointment of SENIOR QUANTITY SURVEYOR (Post No. 170) in the City Engineer and Surveyor's Department on A.P.T. IV (£1,065-£1,220).

Candidates should be A.R.I.C.S. and should be capable of undertaking all stages of work in the preparation of Bills of Quantities and other contract documents, measurement of work, preparation of certificates for payment of interim and final accounts in connection with multi-storey flats, houses, shops, etc., on large housing estates.

Application forms obtainable from the City Engineer and Surveyor, Town Hall, Bradford, 1, with three testimonials, must be received by the undersigned by 15th JULY, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

Amended Advertisement.

FINSBURY
METROPOLITAN BOROUGH.

Applications are invited for a SMOKE CONTROL OFFICER, salary Grade A.P.T. I (£625-£805 p.a.). Superannuation Scheme. Experience in the building or allied trades essential. Duties include visiting residential premises to estimate cost of adaptation of installations necessary to burn smokeless fuel and supervising correct installations; assessing capability of boilers and heating appliances in commercial and industrial premises, to operate smokelessly.

Applications, stating age, qualifications and experience, together with the names of two referees, should be received by the undersigned not later than 8th JULY, 1960.

HENRY A. DAVEY,
Town Clerk.

Town Hall,
Rosebery-avenue,
E.C.1.

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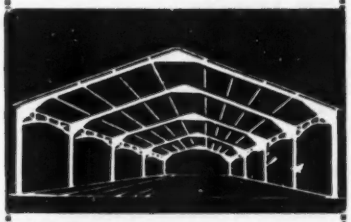

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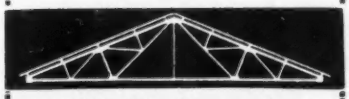

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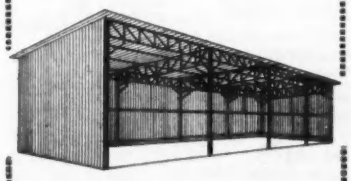

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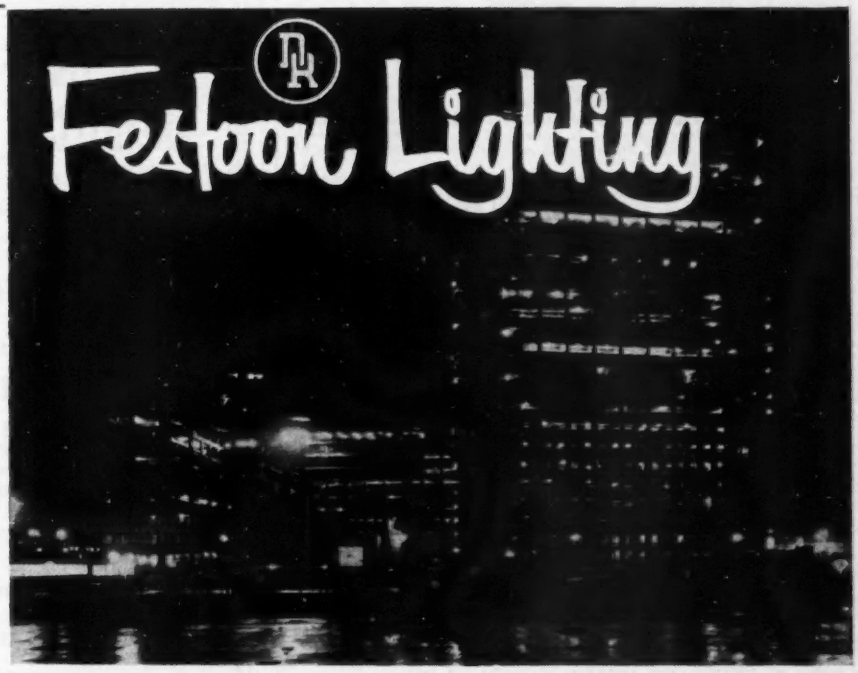

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Company Meeting

SIR LINDSAY PARKINSON & CO.

INCREASED GROUP PROFIT

The Twenty-third Annual Ordinary General Meeting of Sir Lindsay Parkinson & Co. Ltd. will be held on July 20 in London.

The following is an extract from the circulated statement of Mr. A. E. Parkinson, Chairman :—

The Group Profit for 1959 amounts to £308,146 before Taxation, against £270,500 for 1958. Taxation requires £159,905, against £134,997 for 1958. The Group Profit and Loss Account Balance carried forward is £475,557 at December 31, 1959, against £398,375 at 1958. The surplus of Current Assets over Current Liabilities and Provisions on the Consolidated Balance Sheet amounts to £255,548, against £333,300 at 1958. Commitments for capital expenditure not provided for in the 1959 Accounts amounted to £25,600 for the Group against £655,648 at 1958.

Contracts

HOME : The variety of contracts handled, to which I referred last year, has continued.

Our Building Department has continued to obtain contracts from various Ministries and Public Authorities.

Activity in our Civil Engineering Department is growing.

During 1959 our Speculative Housing Department continued to grow and in 1960 there should be a further significant expansion.

Opencast Coal contracts were at a substantial though decreasing level during 1959.

Overseas : Our Montreal Subsidiary Company continues profitably and we have recently increased our financial interest in this Company.

We are now extending our activities in Nigeria. We have been awarded contracts for Roadworks and are now negotiating for building contracts.

Ghana : Further substantial progress has been made on the Tema Harbour contract which is being carried out by our associated Company Parkinson Howard Limited, and that Company has recently been awarded an Extension Contract valued at some £4 million.

Work on the Volta Road contract has proceeded during the year and is nearing completion.

The associated Company has also been entrusted with the civil engineering works for the extensions to the Accra/Tema Power Station.

Dividends

The dividends on the 6½% Cumulative Preference Stock were paid on the due dates.

Members will recollect that for 1958 dividends on the Ordinary Stock were declared to a total of 15% (less tax) and at the time of declaration of the final dividend for 1958 a special interim dividend of 6% (less tax) was declared for 1959 which was not to be taken into account when deciding the further distributions to be made or recommended for 1959.

For 1959 the usual interim dividend of 2½% (less tax) was paid on April 1, 1960 and having regard to the results of that year your Board now recommends a final dividend of 21¼% (less tax) making a total distribution of 24% (less tax) for the year (ignoring the special interim dividend of 6% (less tax) declared at the time of the last Annual General Meeting).

Rights Issue

The Company's Ordinary Stock has now been transferable since 13th June, 1960, in multiples of 5s. instead of £1. This has been done as the Board was advised that it would result in greater marketability of the Ordinary Stock.

As members are aware the Directors are proposing that the Company should raise further permanent capital by an issue at par of 1,200,000 Ordinary Shares of 5s. each on the basis of one new share for every 5s. of Ordinary Stock held. Your Directors have been mindful not only of the desirability of raising further permanent capital needed to finance the continuing growth of the business, but also of the fact that, in their view, it would be appropriate to bring the issued share capital of the Company more in line with the capital actually employed. The present Ordinary Capital is £300,000 and Group Reserves are £911,079. After the proposed issue the issued Ordinary Capital will be £600,000 and the Reserves will remain at £911,079. The Board has been advised that these two aims can be achieved at the lowest cost to the Company by the proposal to double the issued ordinary capital by the issue of 1,200,000 new Ordinary Shares of 5s. each at par.

The proposal necessitates an increase in the authorised capital of the Company. In order that the new Ordinary shares when converted into Stock shall not confer on the holders the right to more votes than that conferred upon the holders of the existing Ordinary Stock (viz.: 1 vote for every £1 nominal of Stock), it is proposed that the Articles of Association shall be altered so as to provide that holders of ordinary capital shall have 1 vote per £1 nominal of ordinary capital held instead of 1 vote per share.

A Resolution to increase the Company's authorised ordinary capital by a further 1,800,000 Ordinary Shares of 5s. each and to convert such shares into Stock on issue and a Resolution to alter the Articles with regard to the voting rights attaching to ordinary capital will be put at the forthcoming Annual General Meeting. The Board has no present intention of issuing any ordinary capital not required for the proposed Rights Issue. It is hoped to post Provisional Allotments Letters to Ordinary Stockholders immediately after the Annual General Meeting.

Conclusion

We are generally increasing our activities as we have the advantage of being a multiple organisation capable of undertaking many varying types of contracts, and invitations to tender for building and civil engineering work are still increasing in volume. The value of the work in hand of our Group at present amounts to over £20 million, and although tendering conditions at the moment are extremely competitive, especially for Roadworks in the U.K., your Board looks forward with confidence to the future.

I again extend to all our employees throughout the Group and to my colleagues on the Board the appreciation of myself and of the Members for their untiring and effective services to the Group.

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Further particulars may be obtained from

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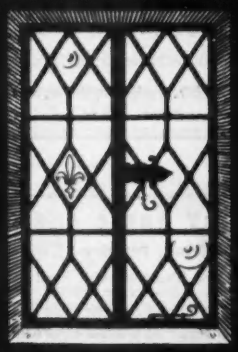

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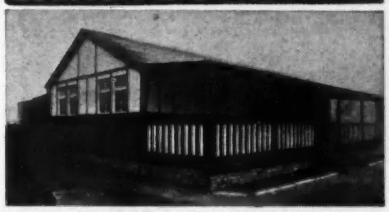
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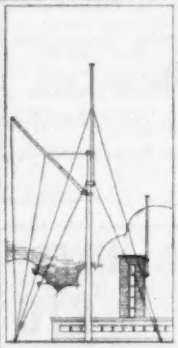
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629, ECCLES NEW ROAD,
SALFORD, 5, Lancs.

TAYLOR WOODROW CONSTRUCTION LTD.

require

QUANTITY SURVEYORS

for Building and Civil Engineering Contracts. Excellent opportunities. Pension Scheme. Paid holiday this year.

Write, giving full details of past experience and present employment which will be treated in strict confidence to

PERSONNEL MANAGER,
345 RUISLIP ROAD,
SOUTHALL, MIDDLESEX.

QUANTITY SURVEYORS

A Quantity Surveyor and an Assistant Quantity Surveyor are required for employment on Civil, Structural and Building Projects. Candidates should have a working knowledge of contract procedure as well as varied experience on large Civil Engineering and Building Projects. Knowledge of estimating and cost analysis is also necessary. Duties will include taking off, abstracting and Billing quantities, in accordance with the Standard Methods of Measurements. Also measuring contract work for final payment and compiling statistics and data for construction cost research.

Candidates are invited to apply giving full details, age, experience, qualifications and salary to **Box No. 3880 "The Builder".**

KYLE, STEWART (CONTRACTORS) LTD.

require

EXPERIENCED QUANTITY SURVEYORS

* * * *

Applications are invited from Senior Surveyors fully competent in handling interim certificates and final accounts for all types of Contracts.

Participation in Company's Bonus, Pension & Health Schemes. Car provided.

Please write giving full details of experience, age and salary required to :—

Managing Director,
Ardshiel House, Empire Way, Wembley, Mdx.

ASSISTANT & JUNIOR QUANTITY SURVEYORS Required for North Wales Contracts, by expanding firm of Contractors. Progressive post with Pension scheme.—Write, full details of age, experience and salary required, to Box 3895, "The Builder."

QUANTITY SURVEYOR, age 25-30, Required in busy Architects' office for work including cost planning, preparation of estimates as well as normal quantity surveying services. Salary about £1,000 per annum. Good prospects. Holiday arrangements honoured.—Apply to HAMMETT & NORTON, 29 Sackville-street, W.1.

SENIOR QUANTITY SURVEYOR Required, to take charge of multi-storey building site office.—THOMAS BARRETT, SONS & PARTNERS, 33 High Bridge, Newcastle upon Tyne, 1.

ASSISTANT QUANTITY SURVEYOR Required by Building and Civil Engineering Contractors for site measuring, valuations and final account work on variety of contracts in Manchester area. I.Q.S. intermediate standard or equivalent.—Please send details of qualifications, experience and salary required, to CONTRACTORS (MANCHESTER), Ltd., Greg-street, Reddish, Stockport.

ASSISTANT SURVEYOR, Intermediate R.I.C.S. standard, Required by Chartered Quantity Surveyors, Oxford, for Taking-off/Account Settlement. Salary £600-£700, according to experience.—Box 3920, "The Builder."

QUANTITY Surveyors. Reliable SENIOR ASSISTANT for Westminster Q.S. office. Permanency. Commencing salary £1,000.—Box 3919, "The Builder."

ASSISTANT (approximately Inter. standard) for small office S.W.1. Progressive position on varied work. State age, experience and salary required.—Box 3934, "The Builder."

SITE QUANTITY SURVEYOR for long-term contract at PORT TALBOT, GLAM., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 3967, "The Builder."

SITE QUANTITY SURVEYOR Required by fi m of Chartered Quantity Surveyors for long-term contracts at SWANSEA and LLANELLY.—Please apply, stating age, experience and salary required, to Box 3968, "The Builder."

SENIOR ASSISTANT Required for London firm of Chartered Quantity Surveyors. Salary up to £1,350 per annum according to age and experience. L.V.'s. Five-day week. Overtime paid and pension scheme. —Please apply to Box 3969, "The Builder."

SITE QUANTITY SURVEYOR for long-term contract at NEWPORT, MON., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 3971, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Office, North Kent. Housing accommodation available. —Please write, stating age, experience and salary required, to Box 3972, "The Builder."

QUANTITY SURVEYOR Required for preparation of interim and final accounts on Building Contracts.—Apply stating age, experience and salary required to E. TAYLOR & CO., Ltd., Littleborough, Lancs.

AUSTRALIA. Vacancies for TAKERS-OFF, see advert. under heading "Overseas Appointments."

QUANTITY SURVEYORS

Applications invited from fully trained and experienced Surveyors who have had recent years experience with C.E. & B. Contractors in valuations and final account work for large Contracts. The appointments will be in Wolverhampton as a base and the Contracts will be in the Midlands area mostly within daily travel distance. A good salary will be offered and there is a pension scheme. Written applications should state age, training experience and present salary to

Wilson, Lovatt & Sons Ltd.,
Clarence Street, Wolverhampton

QUANTITY SURVEYOR'S ASSISTANT (Senior and Junior) are required for temporary and permanent appointments in London, Canterbury, Doncaster, King's Lynn, Nottingham, York, Cardiff and Wrexham. Applications should state area in which appointment is sought giving particulars of age, education, qualifications, experience and salary required. Travelling expenses will be paid for interview.—Apply Box 3947, "The Builder."

SURVEYORS

BONUS SURVEYOR Required by Building and Civil Engineering Contractors in N.W. London. 5-day week, pension scheme in operation, canteen facilities.—Write, full particulars of age, experience and expected salary, to Box Z.O., c.o. J. W. VICKERS & CO., Ltd., 7 Great Winchester-street, London, E.C.2.

BUILDING SURVEYOR, Intermediate standard with minimum of two years' good office experience, Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

ENTERPRISING and ambitious SENIOR SITE SURVEYOR Required in Chartered Quantity Surveyors' office to take charge of important and interesting projects. Three weeks' annual holiday and luncheon vouchers. Pension scheme in operation in the office. A salary commensurate with experience will be paid to successful applicant.—Apply stating age, qualifications and salary required, to Box 942, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

EXPERIENCED SITE SURVEYOR Required by professional firm of Quantity Surveyors, Westminster. Good salary and prospects. Five-day week. Luncheon vouchers. Holiday arrangements respected. Qualifications and experience and salary expected to Box 3542, "The Builder."

MEASURING SURVEYOR Required. Applicants must be experienced in measuring for final account purposes, settlement of sub-contractors' accounts, etc.—Apply, in writing, giving details of age, previous experience, education and salary required, to LAVENDER McMILLAN (CONTRACTORS), Ltd., 54 Cheam Common-road, Worcester Park, Surrey.

EXPERIENCED BONUS SURVEYORS urgently Required for work in the Midlands and Yorkshire. Subsistence payable where applicable.—Apply, stating age, previous experience, and salary required, to GEE, WALKER & SLATER, Ltd., Uttoxeter Old-road, Derby.

ASSISTANT REQUIRED in speculative building department of large Building and Civil Engineering Contractors, experience in taking-off, quantities from drawings for ordering purposes and liaising with purchasers on specific requirements. Holiday arrangements honoured.—Write, stating experience, salary required, etc., Estates Manager, M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

TOKEN CONSTRUCTION COMPANY LTD.

require

SENIOR SURVEYOR

Experienced man required capable of controlling all types of contracts from commencement to final account. Reply to

Personnel Director,
68, Mount St. W.1.

ESTIMATING/SURVEYOR, Joinery and Shopfitting. High-class work, Profit-sharing Scheme and non-contributory Pension Scheme.—Write, or 'phone, JAMES WALKER, Ltd., Brunel-road, W.3. SHE 2332.

A VACANCY exists with well-known Building and Civil Engineering Contractors in Birmingham, for a SENIOR SURVEYOR with sound knowledge and experience of Interim Valuations and Final Accounts. A salary range of £1,250/£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and Bonus scheme in operation. —Full particulars to Box 3774, "The Builder."

SURVEYOR Required by progressive Building Company with Head Office situated in pleasant Midland town. Experienced in site measuring, interim valuations, final accounts and taking-off quantities for estimating purposes. Some experience in estimating an advantage but not essential.—Write, stating age, experience and salary required, to Box 3779, "The Builder."

PART-TIME SERVICES of SURVEYOR or ASSESSOR Required by small professional firm for negotiation and settlement of insurance claims on buildings. Would suit ex-war damage assessor.—Full details of experience to Box 3767, "The Builder."

TECHNICAL ORDER SURVEYOR

Applications invited from young, experienced Surveyors with H.N.C. in Building or L.I.O.B., for large Contracts in the Midlands area, to take off and order Materials, prepare Schedules, phase deliveries, etc.

A good salary will be paid to selected applicants and the positions are progressive. Written applications should state full details of training and experience to :

WILSON LOVATT & SONS LTD.,
Clarence Street, Wolverhampton.

A SURVEYOR

is required for a medium-sized firm of builders in N. Herts. Age 23–35. Basic knowledge of Bills of Quantities, able to prepare interim and final accounts. A car would be provided, there is a pension scheme, and assistance in obtaining housing accommodation could be given. Write, stating age, experience, qualifications and salary required to

B.A.S. (F 19)
82, New Cavendish Street, London, W.1.

2 Experienced

BUILDING SURVEYORS

required for progressive Builder and Contractor for interesting and responsible work mainly in the London area. Capable of assisting in the management of large contracts from enquiry to final account. Apply in writing **Richardson, Herbert House, Slade Green, Erith, Kent.**

Experienced

BONUS AND COSTING SURVEYORS,

Senior and Assistant, required for Civil Engineering and Roadwork Contracts. Mobility essential. Write stating age, previous experience and salary required to

Personnel Officer,
A. Monk & Company, Limited,
Padgate, Warrington, Lancs.

PLANNING OFFICER

RICHARD COSTAIN LTD. have a vacancy for a Work Planning Officer whose duties will include the preparation of overall plans for building contracts, and the breakdown of these plans into short period work loads.

Candidates aged 24—30 should possess H.N.C. in building and have knowledge of Quantities, Costing, and the use of modern plant on site. Training and experience in work study and planning techniques desirable.

Please write to:

PERSONNEL OFFICER
111 WESTMINSTER BRIDGE ROAD, LONDON, S.E.1

CHIEF SURVEYOR & ESTIMATOR

Chief Surveyor and Estimator for Building and Civil Engineering Contracts to take charge of Surveying Department in Manchester Area Office—Salary over £2,000 p.a.

Box 3622, 'The Builder'

A. J. WAIT & CO. LTD.

require

SENIOR & ASSISTANT SURVEYORS

for Contracts in the London & Home Counties area. Permanency and prospects for the right applicant. All details in confidence, stating age, training, experience and salary. Apply in writing to **Chief Surveyor, Wellington Crescent, New Malden, Surrey.**

SURVEYOR/DRAUGHTSMAN Required in Buildings Department for preparation of details and working drawings in connection with modernisation, extension and fitting out existing and new shop premises and general maintenance work. Salary £750 per annum. Pension scheme. Five-day week.—Apply to Buildings Surveyor, THE WORLDS STORES, Ltd., 28/30 Trinity-street, London, S.E.1. Telephone: HOP 7711.

LEADING FIRM of Building and Civil Engineering contractors invite applications from COST SURVEYORS experienced in measuring completed site works, and assessment of targets. Permanent and pensionable positions with good prospects.—Apply, in confidence, stating age, experience in detail, and salary required, to Box No. LF 3533, A.K. ADVERTISING, 212a Shaftesbury-avenue, London, W.C.2.

THE MITCHELL CONSTRUCTION COMPANY, Ltd Require the services of a BUILDING SURVEYOR for an important building contract in the Peterborough area and to operate initially from our head office.—Apply to Building Manager, THE MITCHELL CONSTRUCTION COMPANY, Ltd., Wharf Works, Peterborough.

SURVEYOR, young, energetic, capable of dealing with sub-contractors and final accounts. Some knowledge of estimating an advantage. Required by S.E. London contractors.—State age, experience, salary, to Box 903, "The Builder."

ALFRED BAGNALL & SONS, Ltd., Painting Contractors, Require completely experienced SURVEYOR/ESTIMATOR for London Office. Good salary and excellent prospects for the right man. Car provided.—Apply, in writing, stating age and full details, to 106 High-street, Teddington, Middlesex.

BUILDERS' SURVEYOR (Senior) Required. Must have sound knowledge of site measuring variations, interim valuations, final accounts, etc. Experience in estimating an advantage. Pension scheme after probationary period.—Apply in writing only, giving full particulars of age, experience, education and salary desired, to MELVILLE, DUNDAS & WHITSON Ltd., 21 Blythswood-square, Glasgow, C.2.

MEASURING SURVEYORS, Senior and Junior, principally for work in London area.—Apply giving details of experience and salary required to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

SURVEYOR for small works in N. London. Take-off to final account; car provided.—Reply giving qualifications, experience and salary required to Box 3935, "The Builder."

EXPERIENCED SITE SURVEYOR Required by Professional firm of Quantity Surveyors, Westminster. Five-day week. Luncheon vouchers. Starting salary £900 for the right man then reviewed regularly. Holiday arrangements respected. Qualifications and experience to Box 3921, "The Builder."

SENIOR SURVEYOR. Applications are invited for this position with a progressive London Contractor. Good salary and prospects. Staff pension scheme. Apply, stating age, qualification and experience.—Box 3922, "The Builder."

BONUS SURVEYOR Required for contracts in Coventry and Birmingham area. Experienced in taking-off quantities; pre-planning an advantage. Tradesmen will be considered for this post. Good salary plus travelling expenses, non-contributory pension scheme. Interview in London or Coventry. —Write giving full deails to Box 3923, "The Builder."

MEASURING SURVEYORS, with experience of Industrial Pipeline contracts. Required for site offices in Nort-East England and Midlands.—Write, stating age, experience and salary required, Box 3970, "The Builder."

GARDINER & THEOBALD have vacancies in their London office for SENIOR and JUNIOR SURVEYORS. Luncheon vouchers. Pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.1.

BUILDER'S SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc. Pension scheme.—Apply in writing only giving full particulars of age, experience, education and salary desired to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

GARDINER & THEOBALD have vacancies for TWO SENIOR SURVEYORS for long-term contract at NEWPORT, MON. Housing accommodation available.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.1.

TRAINEES IN SURVEYING

HUMPHREYS LTD.,
Building and Civil Engineering Contractors,
199, Knightsbridge, S.W.7

Young men 16—20 with not less than five G.C.E. subjects at 'O' level who wish to enter the building and civil engineering industry are offered the opportunity of training in all branches of Surveying. Good salary and conditions, and assisted tuition scheme. School leavers at end of the Summer term are particularly invited to apply for an early interview. Please write to the Personnel Department.

MEASURING SURVEYORS

Urgently required for most interesting work in and around London, Portsmouth, Southampton, Basingstoke, Guildford, etc. and surrounding areas. Only qualifications required are enthusiasm and keenness. Excellent salary and bonus.

Box 104

G. E. WALLIS & SONS, LIMITED
require
SURVEYOR/ESTIMATOR

for Maidstone Office. Applications giving details of age, experience and qualifications to:
The Secretary,
G. E. Wallis & Sons, Ltd.,
231, Strand, W.C.2.

SURVEYOR

Able to measure and adjust accounts with quantities. Experience of contract management preferred. Progressive position with old-established building contractor in Nottingham with pension and bonus. State age, experience and salary required.

Box 3982

SURVEYOR/OUTSIDE SUPERVISOR. To control single house conversions S.E./S.W. London. Variations, valuations, final accounts, etc.; car allowance.—Age, details of experience and salary required to Box 920, "The Builder."

SURVEYOR Required by B. & C. E. Contractors, Dagenham area, capable of measuring and preparing accounts up to £500,000.—Write giving details of experience and salary required to Box 3977, "The Builder."

JUNIOR SURVEYOR Required by B. & C. E. Contractor's office, Dagenham area, as assistant to Surveying Department.—Write full details to Box 3978, "The Builder."

SURVEYOR/ESTIMATOR Required by Painting Contractors. Knowledge of A.M. and W.D. contracts an advantage.—Apply in confidence to FIELDS Ltd., 12 Kew-road, Richmond, Surrey.

PLUMBING SURVEYORS Required by leading Plumbing Contractors in London. Capable of ordering materials from drawings and measuring completed works. Good conditions, salaries, bonus and Superannuation, etc.—Box 3953, "The Builder."

SURVEYORS Required for large and expanding company of Private Estate Developers operating mainly in the Home Counties. Good salary and prospects for keen young men with initiative.—Please write, stating age and experience, to Box 3966, "The Builder."

SENIOR SURVEYOR, preferably Chartered, mainly for Final Accounts Required by West End firm. Commencing salary £1,350 per annum.—Reply, stating age and experience, to Box 101, "The Builder."

ASSISTANT SURVEYORS

ASSISTANT SURVEYOR/ESTIMATOR, age 27-35, Required. Knowledge of Air Ministry contracts; W.D. schedule; Sports Ground and Landscape contracts would be advantageous.—TURFSOIL, Ltd., 58 Westcombe Hill, Greenwich, S.E.10.

ASSISTANT SURVEYORS (aged 22-27) Required for varied and interesting work including Taking-Off, Site Measuring, Estimating, Bonusing, Planning and Job Management in all classes of building work. Experience in all fields not essential. Excellent prospects to progress with this expanding group of companies.—Apply to Mr. Kift, WRAIGHT Ltd., 23 London-road, Sittingbourne. 'Phone: 666.

ASSISTANT SURVEYOR Required, aged 21-23, capable Worker-up, for West End Quantity Surveyor's office dealing with large contracts. Luncheon vouchers. Five-day week.—Box 3823, "The Builder."

AN ASSISTANT BUILDING SURVEYOR, age 20/25 years, Required by A. GLENNY & SON, F.R.I.C.S., Chartered Surveyors, 58 East-street, Barking, Essex. About intermediate standard. Work varied and interesting. Candidate should have knowledge of building construction, be neat, capable draughtsman and able to prepare Specifications and Schedules under supervision.—Write stating age, experience and salary required.

JUNIORS

JUNIOR, school-leaving age, Required in City Chartered Quantity Surveyor's office.—Box 3871, "The Builder."

JUNIOR ASSISTANTS (THREE) with some previous experience, Required in busy West End Quantity Surveyor's office with ample scope for advancement. Five-day week. Luncheon vouchers.—Please write, giving age and details of experience, Box 3822, "The Builder."

YOUTH (school leaving age) Required by Chartered Quantity Surveyors in London, W.1 district. Opportunity to learn the profession.—Write stating age, education, etc., to Box 3924, "The Builder."

TAKERS OFF

ASSISTANT TAKER-OFF Required in Chartered Quantity Surveyors' office, London. Excellent opportunities. 5-day week; also JUNIOR to learn the Profession.—Write, stating age, experience and salary required, to Box 3859, "The Builder."

TAKERS-OFF (Senior and Junior) Required by REYNOLDS & YOUNG, Chartered Quantity Surveyors, 329 High Holborn, London, W.C.1. Five-day week, pension scheme, lunch vouchers.—Reply to above address, stating age, experience and salary required.

WESTMINSTER QUANTITY SURVEYORS have a vacancy for a recently qualified TAKER-OFF. Salary £900-£1,000. Pension scheme, luncheon vouchers, 5-day week. In addition to normal duties experience will be provided in cost control methods and the post should be of particular interest to a young Quantity Surveyor who has a penchant for research. —Apply, in writing, to LEMON & BLIZARD, 59 Tufton-street, London, S.W.1.

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply in writing stating age and experience to Box 961, "The Builder."

SENIOR AND JUNIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary, Overtime, Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

HIGHLY experienced TAKERS-OFF Required in Chartered Quantity Surveyors' office on work on substantial, varied and interesting projects. A high professional standard is maintained in the office and only applicants with considerable experience should apply. West Central area. Three weeks' annual holiday and luncheon vouchers. Pension scheme is in operation in the office.—Apply stating age, qualifications, experience and salary required, to Box 907, "The Builder."

TAKER-OFF Required by Westminster Chartered Quantity Surveyor's office. L.V. Five-day week.—Write in own handwriting stating age and salary required. Box 3716, "The Builder."

CHARTERED Quantity Surveyor (London, W.1) Requires competent TAKERS-OFF. Highest salary for suitable applicants. Varied and interesting contracts.—Write stating age, experience and salary required to Box 3727, "The Builder."

TAKER-OFF Required with not less than 2 years' experience in Taking-off. Some unusually interesting contracts. Please state age, experience and salary required.—BASIL A. COHEN, 60 Berners-street, London, W.1.

JUNIOR TAKER-OFF required to fill permanent staff vacancy. Five-day week, pension scheme, holiday arrangements honoured.—Details of experience, salary, etc., in handwriting, to A. E. THORNTON-FIRKIN & PARTNERS, 17 Fitzhardinge-street, W.1.

TAKER-OFF Required, age 24-30, by London firm of Quantity Surveyors. Excellent opportunities for advancement.—Box 3566, "The Builder."

JUNIOR TAKER-OFF Required by Central London firm of C.Q.S. (A.R.I.C.S. preferred). Salary £750-£950. L.Vs. Five-day week and holiday this year. —Box 982, "The Builder."

JUNIOR and SENIOR TAKERS-OFF and MEASURING SURVEYORS Required in City Chartered Quantity Surveyors' office.—Write, stating age, experience and salary required. Box 3753, "The Builder."

EXPERIENCED TAKER-OFF Required to prepare bills of quantities for pricing for R.C. framed structures, hollow tile floors, etc. Five-day week. Pension scheme.—Apply, in writing, stating age, experience and salary required, to the Secretary, CAXTON REINFORCED CONCRETE, Ltd., 45 Bedford-row, London, W.C.1.

TAKERS-OFF Required by West End Quantity Surveyor for permanent pensionable appointments.—Write, stating age, experience, and salary required, Box 3825, "The Builder."

TAKER-OFF, with not less than four years' experience, Required for busy South Bucks Quantity Surveyors' office.—Details to Box 3836, "The Builder."

TAKER-OFF (A.R.I.C.S. preferred). Salary around £1,000 per annum and also WORKER-UP (inter. R.I.C.S. standard). Salary around £700 per annum. Required by C.Q.S. for rapidly expanding practice with work of a varied nature in London and the provinces. Both positions offer considerable scope for advancement. 5-day week and holiday arrangements met.—Write, with details of experience, to D. A. DEGERDON, F.R.I.C.S., 12 Goodwin's Court, St. Martin's-lane, W.C.2.

EXPERIENCED TAKER-OFF urgently Required for permanent position in London professional office. Taking-off and Final Accounts. Basic salary up to £1,550 per annum for capable Assistant.—Box 3846, "The Builder."

TAKER-OFF Required in small office in Victoria area. Good prospects for advancement.—Write, stating age, experience and salary required, to Box 3857, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

QUALIFIED TAKER-OFF Required by Chartered Quantity Surveyors near Victoria Station. Salary £1,100 per annum or according to experience. Luncheon vouchers. Pension scheme.—Box 3883, "The Builder."

YOUNG TAKER-OFF of Intermediate standard as full-time Assistant to Senior Surveyor on taking-off and final accounts. Basic salary up to £1,000 per annum.—Box 3956, "The Builder."

AUSTRALIA Vacancies for TAKERS-OFF, see advert. under heading "Overseas Appointments."

SYDNEY, AUSTRALIA. Experienced TAKER-OFF Required. £A1 p.h., 50-hour week, 1 year contract. Fares paid both ways.—Box 3957, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required in London office by FRANK N. FALKNER AND PARTNERS. 5-day week, holiday arrangements respected.—Please write, stating age, details of experience and salary required, to 39 Bedford-square, London, W.C.1.

DEARLE & HENDERSON Require keen, qualified TAKERS-OFF for their London and Maidstone offices. Pension scheme, 5-day week. High salary offered to right applicants.—Reply: 75 Victoria-street, S.W.1, or 'phone ABBey 2841.

JUNIOR TAKER-OFF with minimum 12 months Taking-off experience Required. Varied work; some account settlement.—Apply, stating age, experience and salary required, H. J. RIDGE & PARTNERS, Quantity Surveyors, 42 Hythe Bridge-street, Oxford.

COMPETENT TAKERS-OFF Required by Chartered Quantity Surveyors (London, E.C.4). Pension scheme. Salary according to experience.—State age, experience, to Box 3929, "The Builder."

WHEELER, RUMBLE & PARTNERS Require TAKERS-OFF. Salary according to experience. —Write or telephone 16 Grenville-street, Brunswick-square, W.C.1. Terminus 1107.

TAKER-OFF of Inter./Final standard Required by W.I. Chartered Quantity Surveyor. Small practice but considerable variety and experience offered. Holiday plans honoured.—Write giving details to Box 3925, "The Builder."

TAKER-OFF, final standard, Required by medium-size Chartered Quantity Surveyors. City area. Salary according to age and experience.—Box 3926, "The Builder."

EXPERIENCED TAKER-OFF Required in West-End London Quantity Surveyor's office.—Reply, stating age, experience and salary required, to Box 3927, "The Builder."

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Pension scheme. Luncheon vouchers.—Please write, stating age, experience and salary required, to Box 3923, "The Builder."

LONDON FIRM of Chartered Surveyors Require experienced TAKER-OFF for long-term contracts in South Wales.—Please apply, stating age, experience and salary required, to Box 3974, "The Builder."

EXPERIENCED TAKER-OFF Required for permanent position in London Professional Office. L.V.s and Pension Scheme.—Box 102, "The Builder."

TAKER-OFF/MEASURING SURVEYOR, preferably with some experience of M.&E. work, Required in Berkshire branch site office by Chartered Quantity Surveyors. House available. Subsistence allowance. Five-day week.—Write, full particulars, to Box 3894, "The Builder."

TAKER-OFF Required in Chartered Quantity Surveyor's office, Central London area.—Please write, stating age, experience, and salary required, Box 107, "The Builder."

AN OPPORTUNITY for a TAKER-OFF with sound professional training to join an expanding firm of Chartered Quantity Surveyors, offering varied and interesting duties, including following contracts through to completion. Team spirit essential.—Please write, stating age, experience and present salary, to RAYMOND J. PLAYLE, 96 Eltham-road, S.E.12.

SYDNEY, AUSTRALIA. Young TAKER-OFF, with at least 10 years' experience in a Quantity Surveyor's office, Required for 1½-year contract. Commencing salary £A2,000. Return fares paid.—Box 3958, "The Builder."

WORKERS UP

WORKERS-UP Required by TUCKER AND HUNTLEY, 110 Old Brompton-road, S.W.7.—Telephone for appointment, FREmantle 7457.

SENIOR WORKER-UP Required by professional firm of Quantity Surveyors, Westminster. Permanent position with good prospects. Five-day week. Luncheon vouchers. Holiday arrangements respected.—Qualifications and experience and salary required to Box 3540, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

WOKING

Immediate vacancy for

WORKER-UP

of two to four years experience.

JOHN McBAIN & PARTNERS,

49/50, Maybury Road, Woking, Surrey. Tel.: 4400/1

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

EXPERIENCED WORKERS-UP and intelligent JUNIORS wishing to train for and qualify as Chartered Quantity Surveyors Required in Bloomsbury Chartered Quantity Surveyors' office. First-class working conditions, including luncheon vouchers and opportunities for progressive training offered to suitable applicants.—Apply stating age, experience, if any, and salary required, to Box 937, "The Builder."

WORKER-UP Required. Salary range £620 to £950 according to age and experience. Compulsory superannuation. Five-day week.—Apply, R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 99 Leman-street, E.1.

WORKER-UP/JUNIOR TAKER-OFF Required by London firm of Quantity Surveyors. Excellent opportunities for advancement.—Box 3567, "The Builder."

CHARTERED QUANTITY SURVEYORS Require experienced WORKER-UP in their Harlow, Essex, office. A good salary and house to rent would be available to suitable candidate who should have professional office experience. Interview in London if desired.—Box 3659, "The Builder."

EXPANDING Chartered Quantity Surveyors Require WORKER-UP, with at least three years' professional experience. Team spirit essential.—Write, stating age, experience and present salary, to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, Lee, S.E.12.

WORKER-UP Required by Westminster Chartered Quantity Surveyor's office. Good opportunities. L.V. Five-day week.—Write in own handwriting stating age and salary required. Box 3717, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors for Sussex coast office. L.V. Five-day week. Write in own handwriting stating age and salary required. Box 3718, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster.—State experience, age and salary required, to Box 3670, "The Builder."

WORKER-UP, with not less than three years' experience. Required for busy South Bucks Quantity Surveyors' office.—Details to Box 3835, "The Builder."

EXPERIENCED WORKER-UP Required for permanent position in London professional office. Basic salary up to £1,000 per annum.—Box 3845, "The Builder."

WORKER-UP Required in small office in Victoria area. Good prospects for advancement.—Write, stating age, experience and salary required, to Box 3856, "The Builder."

SENIOR and JUNIOR WORKERS-UP Required for Chartered Quantity Surveyors' Office, London area. Ample opportunity of overtime.—Box 103, "The Builder."

LONDON FIRM of Chartered Quantity Surveyors Require WORKER-UP with at least 3 years' experience. Good prospects. Interesting contracts. Good salary to suitable applicant.—Reply to Box 108, "The Builder."

WORKERS UP

SITE MEASURING & TAKING OFF

UNIQUE OPPORTUNITIES

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The Builder, 4 Catherine Street, W.C.2

Experienced

WORKER-UP

required in professional office in Westminster. Reply giving age, experience and salary required to

Box No. 3812 "The Builder"

WORKER-UP Required by Chartered Quantity Surveyors in Holborn area. Salary £700 per annum plus bonus and overtime for person with more than four years' experience.—Reply to Box 109, "The Builder."

WORKERS-UP, with at least 3 years' experience. Required by medium-sized firm of Chartered Quantity Surveyors in their Bloomsbury office. 5-day week.—Please reply, stating age, experience and salary required, to Box 3964, "The Builder."

WORKER-UP Required, 5-day week.—Write, stating age, experience and salary required, to SYDNEY C. GORDON, Finsbury House, 22 Bloomfield-street, London, E.C.2.

WORKER-UP for long term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please write stating age, experience and salary required to Box 3975, "The Builder."

WORKER-UP for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and luncheon vouchers.—Please write stating age, experience and salary required to Box 3976, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. 5-day week. Holiday arrangements respected. — MERCER & MILLER, F./F.R.I.C.S., 10 Manchester-square, W.1. Telephone, HUNter 0497.

WORKER-UP Required by Chartered Quantity Surveyors near Victoria Station. Salary about £850, according to experience. Luncheon vouchers. 5-day week.—Write, full particulars, to Box 3899, "The Builder."

EXPERIENCED WORKER-UP Required in West End London Quantity Surveyor's office.—Reply, stating age, experience and salary required, to Box 3928, "The Builder."

WORKERS-UP Required, Senior and Junior.—Apply in writing with particulars of experience and salary required to OSWALD E. PARRATT & PARTNERS, Adelaide House, London Bridge, E.C.4.

ENGINEERS

WORKS STUDY ENGINEER Required, preferably with experience in the building industry.—Reply, in writing, stating age, qualifications and details of experience, etc., to M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, N. Cheam, Surrey.

JAMES MILLER & PARTNERS Require a SENIOR PLANNING ENGINEER. Applicants must be experienced in contract planning, method statements and monthly stage programmes and must have the ability to supervise, encourage and train junior Planning Staff. Experience of work study would be an advantage.—Full details to Pump-lane, Hayes, Middlesex.

SITE ENGINEERS

WILSON LOVATT & SONS LTD.

Clarence Street, Wolverhampton

have several interesting vacancies in the Midlands area for young Engineers, age range 20 to 30 years, for setting out and external services on a variety of contracts. Permanent positions with prospects for rapid promotion and a good salary, etc., will be paid to the selected applicants. Written applications should state training and experience, etc.

A firm of National Contractors require the services of a

PROJECTS ENGINEER

to organize a

PLANNING and PROGRESSING

Section within the Company. The post is a senior one, permanent and pensionable, and the successful applicant will be based in the London Office. Please write giving details of age, experience and salary required to

Box No. 3850, "The Builder"

SITE ENGINEERS Required for building contracts London area. Must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply, in writing, stating age and experience, M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

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require

SOILS ENGINEER

aged 25/30 years, preferably with B.Sc. or Diploma in Civil Engineering. Should have at least two years' practical and laboratory experience. Preferably single and with some experience of contract work.

also

Junior

CIVIL ENGINEERS

required for road contract overseas. Successful applicants will be given some training in soils mechanics before proceeding overseas. Preference will be given to single men with B.Sc. or Diploma in Civil Engineering. Previous experience of Soils Mechanics desirable but not essential.

Write, giving full details, to

Personnel Manager

Taylor Woodrow (Overseas) Limited, Western House, Western Avenue, Ealing, W.5

SETTING-OUT ENGINEERS

required for important contracts in London and the Southern Counties. The positions are permanent and pensionable, and offer good scope for progress. Applications should give full details of age, technical training, experience and salary required to:

Box SE 3515,

A.K. Advg., 212a, Shaftesbury Avenue, London, W.C.2

PLANNING ENGINEERS Required for the planning department of Civil Engineers, with good site experience in building and civil engineering work, and with some planning experience, to be employed in connection with the Company's projects in the London area. Excellent prospects, pension scheme.—Apply, stating qualifications, experience and salary required, to M. J. GLEESON (CONTRACTORS), Ltd., Haredon House, London-road, North Cheam, Surrey.

ESTIMATORS

ESTIMATOR for mass-produced and specialist joinery Required by Lancashire company. Salary £700-£1,000 per annum, according to experience.—Details, Box 3864, "The Builder."

ESTIMATOR, experienced price build up, flats, houses, schools, factories, etc. Permanent, pensionable, good opportunity. South coast contractor.—Ring Worthing 7895.

ESTIMATOR/SURVEYOR Required in General Works Department. Able to prepare Estimates and supervise jobs to final account.—Write, with full details of age, experience and salary required, Secretary, KILLBY AND GAYFORD, Ltd., 87 Worship-street, E.C.2.

ASSISTANT ESTIMATOR/SURVEYOR Required by small old-established company, London Bridge area. Able to prepare own quantities and competent to manage small contracts from enquiry to final account. Excellent prospects for keen energetic young man with experience.—Applications, stating age, experience and salary required, to Box 3662, "The Builder."

ESTIMATOR/SURVEYOR Required for plastering firm. Experience essential. Good salary and prospects for suitable applicant. Car provided.—Write, in confidence, stating age and experience, Box 3747, "The Builder."

ESTIMATOR Required for Small Works Department. Must be fully experienced in Site Measurement all Trades, taking-off and pricing from Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply, in writing, stating age, experience and salary required, to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

PLUMBING and HEATING ESTIMATOR.—R. D. HOPE & CO., Ltd., Building Contractors, 15 Selsdon-road, South Croydon, Require young man immediately, capable of estimating domestic and small industrial plumbing and heating installations and alterations, including design and specification. This position offers exceptional scope for advancement.—Apply for interview to Mr. Lott (CRO 9262). Existing holiday arrangements honoured.

ESTIMATORS ASSISTANT Required by City Builders. Keen and energetic young man with experience of measuring in either Builders' or Quantity Surveyors' offices. Typing an advantage.—Box 3853, "The Builder."

ESTIMATOR

* * * * *

Young man required, preferably with some experience of Civil Engineering, structural and building works, and general services in connection with industrial undertakings.

The work will entail the preparation of Scheme Estimates from preliminary information.

Permanent position. Five-day week, luncheon vouchers. Pension Scheme.

Please write, giving full particulars, to the Personnel Manager, W. S. Atkins & Partners, 158, Victoria Street, London, S.W.1.

CHIEF ESTIMATOR/SURVEYOR

Required by medium-size firm of building and civil engineering contractors engaged on all types of good-class work, including large factory projects. Applicants must have wide knowledge of all aspects of the building industry and be capable of handling contracts from enquiry to final account. Progressive post for keen and energetic man. Apply in writing, giving age, full details of experience and salary expected, to :

E. C. HUGHES LTD., Albion Works, Wokingham, Berks.

TAYLOR WOODROW

require

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Applications are invited for capable estimators experienced in all forms of building contract work. Scope of work provides for varied and interesting tendering in London office for overseas contracts.

Write to:—

OVERSEAS PERSONNEL MANAGER

Taylor Woodrow Services Ltd., Western House, Western Avenue, Ealing, London, W.5.

ESTIMATOR

required for medium size Builders in East London for contracts up to £70,000. Permanent and pensionable position. Holiday commitments honoured this year. Write giving full details of age, experience and salary required to

J. & J. Dean Limited,

Ruckholt Works, Leyton, E.10.

KYLE, STEWART (CONTRACTORS) LTD.

Require services of

SENIOR ESTIMATOR

Write giving details of age, experience & salary required. Successful applicant will be provided with a car, participate in Company's Pension, Health & Bonus schemes. Only those with wide experience should apply:—

Managing Director, Ardshiel House, Empire Way, Wembley, Mddx.

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London. Excellent prospects for suitable applicant. Apply in writing, stating age, experience and salary required to

Box No. 921 "The Builder"

ESTIMATORS SENIOR & ASSISTANT

Required immediately. Must be fully experienced in pricing all types of B. & C.E. Works. Pension and Life Assurance Scheme. Apply full details, age, experience, salary required, to :—

Managing Director,
F. R. HIPPERSON & SON LTD.,
Invicta House,
Dagenham, Essex.

BUILDING ESTIMATOR/SURVEYOR

Opportunity for progressive, energetic, experienced man about 25/35 in substantial Builders/Decorators, Kingston, Surrey. Estimate to final account, including site supervision. Salary range £800/1,000 to commence. Holiday this year. Pension. Send full details in strict confidence to

Box No. 3886, "The Builder"

ESTIMATOR/SURVEYOR for small Contracts Department Required by FORD & WALTON Ltd. Department handles contracts up to £25,000 and applicants must be fully experienced. Employment will be at Stratford, E.15, until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications giving full particulars to Personnel Manager, FORD & WALTON Ltd., Walton House, Warton-road, E.15.

ESTIMATOR

Required by

CORROSION TECHNICAL SERVICES, Ltd.

Experience of acid resistant construction desirable. Right man has good prospects of eventually taking charge of Estimating Department.

Apply, in writing, giving full particulars of age, qualifications and experience, to:
Sunley's Island,
Great West Road,
Brentford, Middlesex.

ESTIMATOR and BUILDING SURVEYOR Required immediately for progressive building company operating from the South East London area. Applicants should be fully experienced in Estimating, Taking-Off Quantities and capable of working from drawings and specifications and preparing interim and final accounts.—Write, giving details of salary required, to Box 3937, "The Builder."

ASSISTANT ESTIMATOR Required by Northants Builders. Must be experienced in Site Measurement, Taking-off and pricing from drawings and specifications.—Apply, in writing, stating age, experience and salary required, to H. B. PEARCE (CONTRACTORS), Ltd., Thrapston-road, Finedon, Northants.

ESTIMATOR/SURVEYOR Required by builders and contractors in Reading area. Applicants should be able to take-off and price from drawings and specifications, measure in all trades for final accounts and sub-contract payments. Good prospects for keen man.—Reply, giving age, experience and salary expected, to Box 3930, "The Builder."

ESTIMATOR Required for Minor Works Dept. of expanding, medium-size Contractors in London. Should be used to pricing from Drawings and Specification, up to £10,000. Excellent opportunity for experienced Surveyor or for young man with some experience.—Box 3901, "The Builder."

JUNIOR ESTIMATOR/SURVEYOR Required, Bromley, Kent area. Knowledge of taking-off and preparation of final accounts.—Full details to Box 3906, "The Builder."

JOINERY ESTIMATOR experienced in decorative and architectural joinery, churches, banks, showrooms, etc.—Apply, with details of age, experience, salary, to Director, HEAL'S JOINERY WORKS, 196 Tottenham Court-road, W.1.

SITE EXCAVATION. Clearance, Bulk Excavation, etc. Experienced man wanted for estimating, carrying out work, and final measurement. Administrative, and depot facilities available in Middlesex; also large quantity of plant machinery from Associate Plant Hire Company. Good opportunity for active man with contacts for this type of work, interested in working up a department.—Apply, by letter, to FULWOOD CONSTRUCTION CO., Reg. Office., Berkeley Court, Baker-street, N.W.1.

ASSISTANT or TRAINEE SURVEYOR for Estimating Dept. of established Contractors E. London area. H.N.C. desirable. Position offers good prospects, is permanent and pensionable after probationary period.—Write, giving details of education, experience and salary required, to Box 3952, "The Builder."

ESTIMATOR wanted for work up to approximately £50,000. Experience in taking-off own quantities essential. Age group 30-35.—Write with full details of experience and salary required to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

ESTIMATOR Required for progressive small works department being part of large works organisation in Kensington area. Must be interested in conversions and jobbing work. Permanent position for right applicant. Pension scheme.—Please write, giving full particulars, and salary required, to Box 110, "The Builder."

ESTIMATOR Required by large London builders, with previous experience of pricing Bills of Quantities, taking-off and final accounts for new work, alterations, etc., up to £15,000. Excellent opportunity of progressing on to larger contracts. Position is permanent with pension and life assurance scheme. Alternate Saturdays free. Luncheon vouchers available. Holiday commitments will be honoured.—Reply, stating age, experience and salary required, to Box 3983, "The Builder."

ESTIMATOR SURVEYOR (Junior) Required in large London Builders' Office. Work involves measuring sub-contractors' work, preparation of small estimates. Excellent opportunity of advancement. Good amenities and pension scheme.—Reply stating age, experience and salary required to Box 3984, "The Builder."

PLUMBING ESTIMATOR AND SURVEYOR Required with knowledge of measurements for interim payments, final accounts and cost control. Please write fully, previous experience, salary required, etc.—Box 3948, "The Builder."

ESTIMATOR. D. B. EVANS (BILSTON) Ltd. Require a capable BUILDING ESTIMATOR with wide experience in tendering for major building works. This post is permanent and pensionable. A car allowance will be paid and assistance given with housing if required.—Apply in writing in strict confidence stating age, training, qualifications, experience and salary required to D. B. EVANS (BILSTON) Ltd., Oxford-street, Bilston, Staffs. (Ref. GWH.)

ESTIMATOR Required by FORD & WALTON Ltd. Applicants must be fully experienced and have a sound knowledge of modern building methods. Employment will be at Stratford, E.15, until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications giving full particulars to Personnel Manager, FORD & WALTON Ltd., Walton House, Warton-road, E.15.

ASSISTANT ESTIMATOR/SURVEYOR Required by established Croydon Builders. Must have good training, able to prepare estimates and supervise up to final account, building works, alterations and decorations.—Write, stating age, experience and salary required, Box 3828, "The Builder."

MANAGERS

REQUIRED immediately, man with good knowledge of facing bricks and for taking charge of quotation section of well-known London Builders' Merchants. Own employees know of this advertisement.—Full particulars to Box 3869, "The Builder."

PAINTING CONTRACTORS Require DIRECTOR-MANAGER for London office. Applicants must give full details of experience, present employer, and at least one referee. In return for integrity and an ability to control labour, a high salary will be offered, also percentage of profits, pension scheme.—Apply, Box 3866, "The Builder."

OUTSIDE MANAGER Required by medium-sized firm of builders in Somerset, to handle contracts and general outside work. Sound knowledge of all trades essential. Age not over 40. Good salary to right man.—Write, stating age, education and experience, to Box 3877, "The Builder."

PLANT HIRE MANAGER. Applications are invited for the position of PLANT HIRE MANAGER for firm specialising in the Hire and Sales of all types of Builders' Plant. Applicants must have thorough knowledge of business and be capable of building up Dept. This position carries a most attractive salary with bonus for right man and Directorship after probationary period. Non-contributory Superannuation scheme. Car supplied or allowance paid.—Write, giving full details, to Box 3905, "The Builder."

MANAGER Required for moderate-sized Building Contractors' business in Norfolk. Will be required to take sole charge of business which has great opportunities for expansion. Excellent prospects for person with drive and ability.—Applications, in writing, to Box 3903, "The Builder."

CONTRACTS MANAGER/SUPERVISOR. Jobs up to £50,000 aggregate £200,000, mainly S. London. Good prospects for right man with drive and initiative.—Write details experience, age and salary required to GREENAWAY & SON, 265 Lordship-lane, S.E.22.

MANAGER Required for plumbing and hot water fitting department of medium-size building contractors. Applicants should have had some experience in a similar capacity and be capable of preparing designs and estimates for small plumbing and heating systems.—Apply, stating salary required, to COULSON & SON, Ltd., 37 St. Andrew's-street, Cambridge.

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wish to appoint

TWO ASSISTANT CONTRACTS MANAGERS

Applications are invited from men who have at least H.N.C.; having proved their ability to control single sites, perhaps as sub-agent, with experience of reinforced concrete structures, and are now looking for the opportunity to qualify themselves for Contracts Management.

Full details of previous positions, qualifications and salary required, should be sent in confidence to:

BOX NC 3537 A.K. ADVTG.
212a SHAFTESBURY AVENUE
LONDON, W.C.2

An

ASSISTANT SALES MANAGER

required

by Joinery Manufacturers. A progressive position for a man who has a knowledge of Joinery or kindred trade.
Rapid expansion is taking place and a good future is assured.
Apply, stating age and present salary, to :—

S. A. Grant,
AUSTINS OF EAST HAM LTD.,
London, E.6.

PAINTING CONTRACTORS Require MANAGING DIRECTOR for a subsidiary provincial company in the South of England. Must be capable estimator, surveyor trained. Commencing salary £1,750 per annum plus a substantial percentage of profits. Position advised present staff.—Apply, Box 3537, "The Builder," quoting Ref. P.C.M.D.

BUILDERS ASSISTANT MANAGER Required, capable of taking off quantities, preparing estimates and supervising work in a thriving country business in Hampshire, and later to take over the sole management.—Apply, with full particulars, to Box 3684, "The Builder."

WEST COUNTRY Building firm of medium size Requires competent man to manage yard, stores and transport. Must have good knowledge of the trade. Salary commensurate with experience and ability. Age up to 45.—Write, stating age and experience, to Box 3761, "The Builder."

ASSISTANT MANAGER

required for West Middlesex Branch of London Contractors. Specialising in alterations and decorations. Must be able to estimate and supervise contracts and work on own initiative.

Car driver preferred. Write stating age, experience and salary required to

Box No. 3689, "The Builder"

MANAGER Required to train for Director of Building Company in North London. The business is mainly speculative with a turnover of £250,000. Applicants between 30 and 45 should have similar experience, sound practical training for office or site, and a good business sense.—Apply, stating age, experience since 1945 and salary required, to Box 3763, "The Builder."

OFFICE MANAGER Required for rapidly expanding business. Experience in office organisation, invoicing and costing systems essential; also knowledge of Bills of Quantities.—Apply, giving full details of experience and salary required, to KENDELL'S FLOORING, Ltd., 97 East-street, Epsom.

CONTRACTS MANAGER, age 25/35, Required by old-established firm of Building Contractors. Position offers good prospects and is pensionable after probationary period. Qualifications should include some previous experience of site supervision and contracts management and A. or L.I.O.B. or H.N.C.—Write, brief details of education, experience and salary required, to HAMMOND & MILES, Ltd., Scrafton-road Works, Ilford.

ASSISTANT MANAGER for Roofing Department Required. Fully capable of attending to general correspondence and routine of office. Knowledge of estimating and roof techniques essential.—Apply, in writing, Secretary, W. T. LAMB & SONS, Ltd., 35 New Bridge-street, E.C.4.

TECHNICAL SALES MANAGER. An expanding group of building and civil engineering companies which operate an "All-In" service as designer/contractors in the industrial and commercial fields Require an outstanding man to lead and control its sales and negotiations. The opportunities, responsibilities and rewards are wide open to the right man. Only applicants with a technical background who combine outstanding business ability with first-rate selling experience can be considered. This is an opportunity to join a young company which has already proved highly successful in the field. The Group operates on a national basis and its headquarters are situated in the most pleasant town in the South Midlands. The man chosen should qualify for a directorship in due course. —Apply, confidentially, giving the fullest details of education, background, experience and salaries earned to date to Chairman and Managing Director, Box 3931, "The Builder."

ADDITIONAL BUILDERS CONTRACTS MANAGER, aged 35/40 Required for medium-sized Builder and Contractor, South Manchester, preferably Surveyor-trained. Permanent and pensionable after satisfactory service. Car provided. Salary range £1,050/£1,250 according to experience.—Write, in confidence with full particulars, to Box 3932, "The Builder."

PLUMBING. AREA CONTRACTS MANAGERS Required. London, South Midlands and South Coast by leading contractors. Good salaries, conditions, bonus and superannuation.—Box 3954, "The Builder."

GENERAL MANAGER Required by old-established London building contractor with turnover of £100/130,000 per annum. Must have practical experience of managing works from minor maintenance up to contracts of £70,000. Must be capable of drawing up specifications, measuring and estimating for works from £20 up to £4,000. Q.S. employed for pricing major contracts. Good salary. Interest in results, and possible Directorship. Capital not essential. Only thoroughly practical, experienced, and energetic man need apply.—Apply in writing, stating experience, age, etc., to Box 3945, "The Builder."

HASTINGS & WORTHING
CONTRACTS MANAGER

required for control of estate developments. Must be competent to supervise construction of estate roads, sewers, domestic dwellings and be capable of dealing with sub-contractors.

High salary, bonus and permanent pensionable position offered to experienced man.

Write stating full details to

A. E. A. PROWTING LTD
Bury Street, Ruislip, Middx.

PERSONNEL ASSISTANT

Applications invited from young men with University or Public School education and some recent experience in Personnel Management with a large firm for a Midlands Civil Engineer Contractors' Head Office. Duties will consist of dealing with Staff applications, Labour requirements, Welfare, Statistics and other Administrative matters.

Written applications stating fully, age, education, training, and experience in confidence to

Box No. 3887, "The Builder"

PERSONAL ASSISTANT for Contracts Supervisor (Prefab. Buildings). Ideal applicant will be about 23 years of age with considerable experience in a builder's or Q.S. office. Unlimited scope for right man. Good salary and pleasant working conditions in new offices W.1 district.—Apply in writing giving full details of experience and salary expected, Box 3981, "The Builder."

SENIOR ASSISTANT Contracts Manager/Estimator Required for National firm of Building Contractors, H.O. London.—Write giving age and full details of experience and salary required to Box 3946, "The Builder."

CLERKS OF WORKS

CLERK OF WORKS Required for interesting commercial project in Hammersmith area. The contract will commence mid-August with completion in May, 1961. Salary £90 per month.—Tel. CITy 4760 for appointment.

CLERK OF WORKS Required for large project, by RONALD WARD & PARTNERS, 29 Chesham-place, Belgrave-square, S.W.1. BELgravia 3361.

CLERK OF WORKS Required for Reading contract. Must be fully conversant with modern reinforced concrete construction, etc. Top salary paid to right applicant. 18 month minimum contract.—Please write to E. NORMAN-BAILEY & PARTNERS, 25/27 Catherine-place, London, S.W.1, for appointment.

EXPERIENCED CLERK OF WORKS Required at once, for 18 months to two year contract, on civil engineering work in respect of chemical plant in Manchester. Salary £1,000 per annum with prospect of extension contract.—Box 3844, "The Builder."

GOSPORT. Extensions to St. Mary's R.C. Primary School. CLERK OF WORKS Required for the above, commencing end of July.—Applications from competent and experienced men only, should be sent with references, etc., to W. C. MANGAN, Chartered Architect, 2 Ribblesdale-place, Preston, Lancs.

COMPETENT ASSISTANT CLERK OF WORKS Required by large residential property company. Able to write specifications, estimate, and supervise general works. Permanent job with early promotion for right man, provident fund scheme in operation. Car driver but not essential.—Write, stating age, experience and salary required, Box 3938, "The Builder."

CLERK OF WORKS
MAY & BAKER LTD.

have a vacancy in their Norwich Factory, to supervise construction and maintenance work in connection with the development of a new Chemical works.

Applicants should have a thorough technical training and experience on large buildings in reinforced concrete with high quality finishes. Five-day week, Staff canteen. There is a Pension Fund and Life Assurance Scheme in operation. Apply in writing to

Factory Manager,
May & Baker Ltd.,
Sweet Briar Road,
Norwich, Norfolk
NOR 90J

BUYERS

ASSISTANT Required in Builder's Buying Dept. Experience essential in inviting tenders from Sub-Contractors from B.Qs. Age 30-50.—Apply, in writing, with full details of previous experience and salary required, to RUSH & TOMPKINS, Ltd. (Ref. RVE), 109 Station-road, Sidcup.

BUYER Required by well-established S.E. London Contractors, fully conversant with all trades, preparation of schedules and sound experience.—Write, stating age, salary and others details, to Box 928, "The Builder."

BUYER'S ASSISTANT Required for Builders' office, with experience in placing orders and sub-contracts. —Write, stating age, experience and salary required, to Y. J. LOVELL (SUSSEX), Ltd., Bishopric, Horsham.

REPRESENTATIVES

SALES REPRESENTATIVE Required by KENDELL'S FLOORING, Ltd., 97 East-street, Epsom. Applicants should have wide knowledge of the building industry, and have a good connection with the Architectural profession in the Greater London area.

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established line, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box 947, "The Builder".

LEADING PLASTIC Thermal and Acoustical Insulation Manufacturers Require the services of experienced and widely connected SENIOR TECHNICAL REPRESENTATIVES accustomed to negotiations at all levels in the Building Industry and with the Architectural Profession. Excellent salary, pension scheme and prospects offered to the right men, who should apply in writing, stating age, experience and salary required, to Managing Director, JABLO PLASTICS INDUSTRIES, Ltd., Jablo Works, Waddon, Croydon, Surrey.

SALESMAN Required for London area by Builders' Merchants.—Apply, in writing, stating age and experience, to PRATT (WATFORD) Ltd., 123 Caledonian-road, N.1.

FIRST-RATE SALESMEN Required by old-established manufacturer of Chemical Products for the Building Trade. Car owners are offered exclusive territories with payment by salary, expense allowance and bonus.—Write fully, giving details of experience and trade connections, to Box 3748, "The Builder."

EXCEPTIONAL opportunity for REPRESENTATIVES calling on and having established connections with the Building and allied trades as well as Shipbuilders and their contractors, to carry an additional highly competitive and remunerative line. Representation required in the North of England, the Midlands, London and the Home Counties, South of England and Wales. All replies treated in the strictest confidence. —Representatives interested please write to Box 3625, "The Builder." All letters answered.

REINFORCED CONCRETE Contractors Require a REPRESENTATIVE, to promote liaison with Architects and Consultant Engineers in the London area. Salary and commission commensurate with previous experience and knowledge of the market. —Apply to ABBEY CONCRETE, Ltd., Abbey House, 2 Victoria-street, London, S.W.1.

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LONDON AREA

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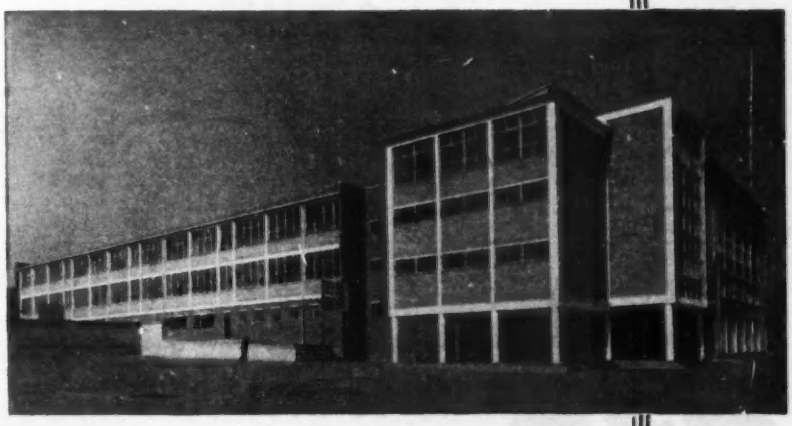

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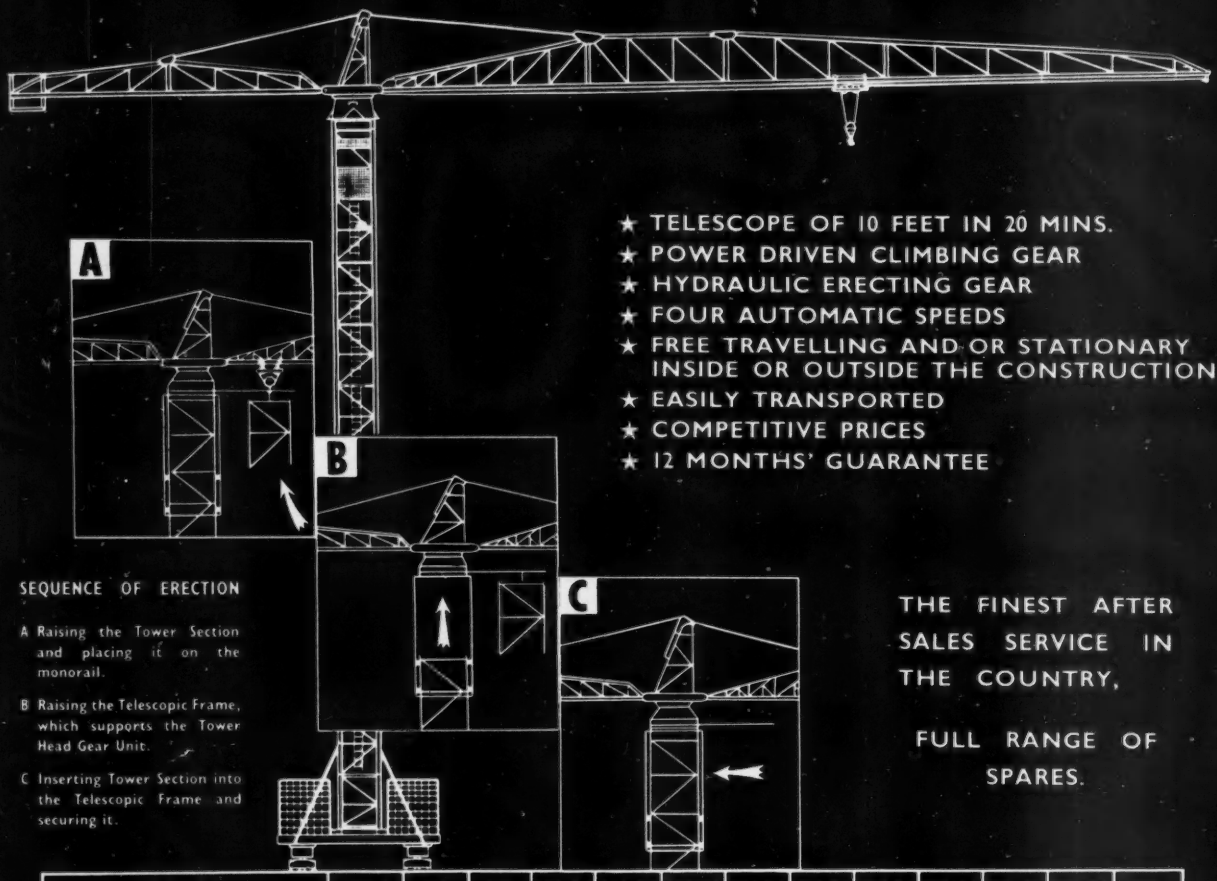

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